



DESIGNER SERIES

OUTDOOR PRODUCT CATALOG



HOLOPHANE[®]
LEADER IN LIGHTING SOLUTIONS

experience
lighting's
best



DESIGNER SERIES

THE DESIGNER SERIES IS THE PERFECT BALANCE BETWEEN ARCHITECTURAL APPEAL AND OPTIMUM PERFORMANCE. THE PRODUCT FAMILY PROVIDES SIGNIFICANT STYLE AND OPTICAL CHOICE, ULTIMATELY PROVIDING A SPECIFIER WITH AN IDEAL SOLUTION FOR HIS OR HER APPLICATION.



- Aesthetics
- Performance
- Endurance

All of these are ingredients for lighting products that stand the test of time. Behind this is the design of the product, the underlying function that requires the insight of designers and engineers to make the best practical determinations before the product is actually utilized; ultimately, that is what sets Holophane lighting products apart from the rest. Holophane Designer Series luminaires, contemporary or classic, provide a palette of choices for you to complete your architectural composition.



GlasWerks® II



MetroVue®



Pechina®



Mongoose®



PoleStar® II



MirroStar®

Somerset®

Crestwood®



GLASWERKS® II

THE GLASWERKS II SERIES IS A COMPLETE LINE OF LUMINAIRES, POLES, AND ARMS THAT ADD ELEGANCE TO ANY SETTING. ULTIMATELY, THE OFFERING IS DESIGNED TO MEET THE AESTHETIC QUALITIES DESIRED IN OUTDOOR LIGHTING SYSTEMS, WHILE PROVIDING SUPERIOR OPTICAL, ELECTRICAL, AND MECHANICAL PERFORMANCE.

GLASWERKS II SERIES HAS THE PERFECT BALANCE OF DESIGNER APPEAL AND PRACTICALITY, MAKING IT THE MOST DESIRABLE PRODUCT OF ITS KIND IN THE WORLD.



FEATURES AND BENEFITS

- ❑ Contemporary design in a variety of style choices on arm or pole mounting for a breadth of product offerings
- ❑ Permanent, durable materials provide superior performance
- ❑ Eighteen aesthetically pleasing optical choices offers a variety of light distributions
- ❑ Tool-less relamp and universal component tray provides ease of maintenance

TYPICAL APPLICATIONS

- ❑ Municipal Streets
- ❑ Commercial Plazas
- ❑ Retail Centers
- ❑ Campuses
- ❑ Waterfronts
- ❑ Resorts
- ❑ Sports Complexes

VERSATILITY AND AESTHETIC APPEAL

A WIDE RANGE OF
ARCHITECTURAL
DESIGN OPTIONS

The GlasWerks II luminaire family boasts eight distinctive styles characterized by the shape of the decorative reflector. At the cornerstone of its daytime appeal is the eye pleasing prismatic glass optical refractor, which is available in a variety of styles providing a distinctive daytime sparkle that distinguishes the luminaire from other alternatives. Made of fine craftsmanship, the luminaire style is characterized by smooth flowing lines free of any unsightly welds or distracting seams, ultimately adding elegance to any outdoor space.

A wide variety of post and arm styles are available with inspiring modern styles, which can blend with nearly any theme. Specifically, the pole assemblies are designed to flow gracefully to allow for a flattering appearance. A wide array of finish colors can add accent to a specific project theme.

- Shape
What luminaire shape and style will best complement your surroundings
- Optics
What type of lighting distribution will provide the performance, comfort and efficiency required
- Mounting
Pole and arm type can all affect the appeal and performance of your design
- Lamp
What source and wattage will it take to properly illuminate your application
- Color
A selection of standard colors, or you can customize



MECHANICAL FEATURES

OPTICS

In addition to its distinguishing sparkle, the prismatic glass optical system is designed to provide optimal performance that results in high efficiency and visual comfort. Available in eighteen different optical choices, a wide variety of distributions allow the designer to maximize overall lighting effectiveness, while promoting excellent uniformity and superior visibility. Furthermore, the luminaire is able to provide IESNA full cutoff, cutoff, or semi-cutoff classifications with the popular light sources of metal halide and high pressure sodium up to 400 watts.



Sag glass option



Cylindrical glass option



Teardrop glass option

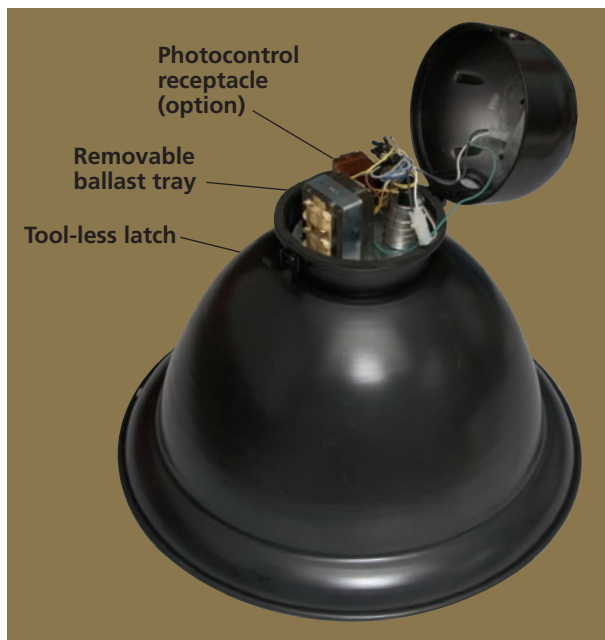


Bowl glass option



Flat glass option

EASE OF INSTALLATION AND MAINTENANCE



All GlasWerks II product models are engineered for ease of installation and maintenance with the primary goal of reducing costs associated with labor and maintenance.





APPLICATIONS

IDEALLY SUITABLE FOR PEDESTRIAN WALKWAYS IN PROGRESSIVE URBAN SETTING, THE LIGHTING SYSTEM SCALES WELL AT OVERALL HEIGHTS BETWEEN 12 AND 20 FEET. FURTHERMORE, EFFECTIVELY ILLUMINATE AND ENHANCE MUNICIPAL STREETS, COMMERCIAL PLAZAS , CAMPUSES, WATERFRONTS AND OUTDOOR RETAIL CENTERS.



Photo courtesy of Marlies Manning Design

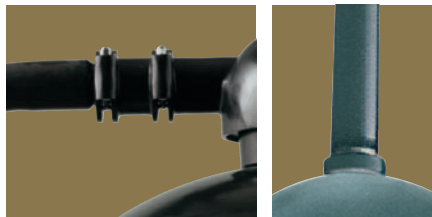




LYON

PRAGUE

Cast Aluminum Ballast Housing has a smooth domed contour with a unitized assembly. The tool-less latch provides easy access to the ballast assembly.



Arm Mount and Pendant Mount provides more versatility in designing lighting applications.

Choice of Eight Luminaire Shapes offers a wide selection of design options for any architectural landscape



Leveling Screw Set locks the housing into the horizontal arm with a +/-5° allowance.



Choice of Multiple Refractors offers a wide selection of lighting distributions.



Pole Options include a variety of pole materials and styles are available to complement luminaire and site architecture

ORDERING INFORMATION

POLE CONFIGURATIONS AND MATERIAL INFORMATION

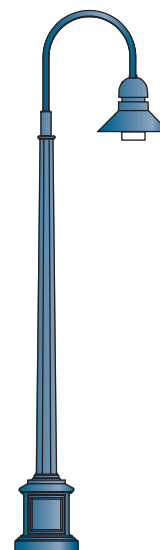
Holophane offers a full selection of pole shapes, sizes and styles to satisfy any arrangement or mix required to complete the execution of a design. With choices in steel, aluminum, round, square, decorative bases and pole top shapes, and complementary mounting arms that transition the pole shape to the luminaire, the designer is enabled to balance the luminaire/pole combination with the architecture of the surrounding area. For complete pole information and catalog structure, please visit our website www.holophane.com or refer to the Holophane Outdoor Buyers Guide.



Hallbrook Aluminum



Columbia Cast Iron



*Fort Washington
Cast Iron and Steel*

PERFORMANCE SPECIFICATIONS

General

The Euro styled luminaire consists of a prismatic glass optical assembly shielded by a cut-off reflector and a top mounted cast aluminum ballast assembly. A softened decorative upright component is also available.

Optical Assembly

The optical assembly consists of a thermal resistant annealed borosilicate glass refractor mechanically held in a formed aluminum door frame. The hinged door frame is attached to the spun cover with two tool-less screws and hinge. An optional cast aluminum vertical or horizontal guard door frame is available on most optical options. The hinged door assembly allows easy access for re-lamping. Light from a vertical lamp is distributed by precisely molded refracting prisms to maximize utilization, uniformity and luminaire spacing. Multiple unique refractors are available for symmetrical or asymmetric distribution.

Ballast assembly

The cast aluminum ballast housing has a smooth domed contour. A terminal block is provided with a quick disconnect receptacle. The ballast housing is hinged with a tool-less latch to provide easy access to the ballast assembly. The unitized ballast assembly, containing the ballast and other electrical

components, plugs into the quick disconnect receptacle. The ballast plate is attached with two tool-less screws. A nickel plated lamp grip socket of street lighting grade with a glazed porcelain body and the center contact backed by a coiled spring, is positioned mechanically to the ballast plate, placing the lamp at the light center of the prismatic glass refractor.

The pendant mount version has a 1-1/2" circumferential reveal. This housing has an integrally 1-1/2" NPT threaded entry with stainless steel set screw.

The arm mount version is provided with two U-bolts with washers and nuts and two leveling set screws that lock the housing to a 2" nominal (2-3/8" O.D.) horizontal arm and allow a +/- 5 degree adjustment from horizontal to the cover.

Ballasts

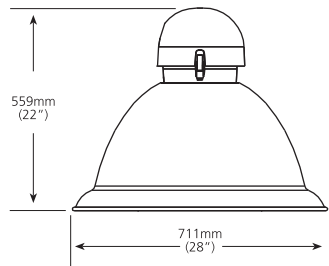
(Refer to the Ballast Handbook for specific operating characteristics) All HPS ballasts are High Power Factor Lag type.

70, 100 and 150 watt MH units are High Power Factor Lag type ballasts.

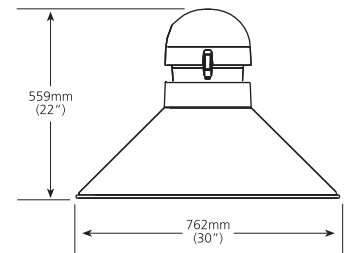
Finish

The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

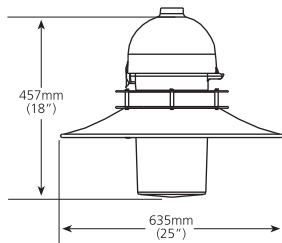
DIMENSIONAL DETAILS



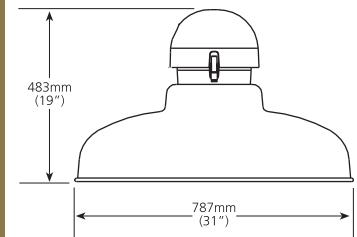
GB — Bern
 Maximum Weight: 30 kg. (66 lbs.)
 Maximum EPA: 1.79



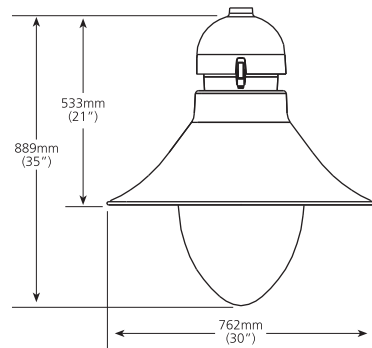
GE — Hallbrook Extended
 Maximum Weight: 32 kg. (71 lbs.)
 Maximum EPA: 1.6



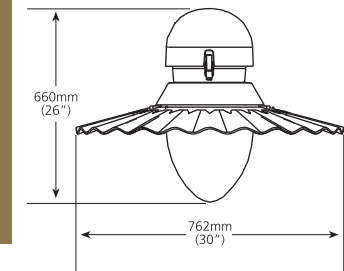
GM — Milan
 Maximum Weight: 20 kg. (45 lbs.)
 Maximum EPA: 1.22



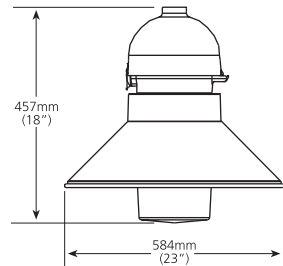
GN — Vienna
 Maximum Weight: 32 kg. (71 lbs.)
 Maximum EPA: 1.60



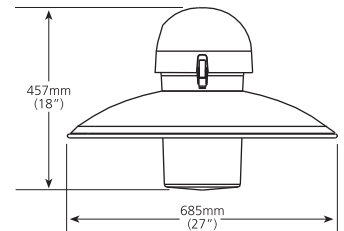
GP — Prague
 Maximum Weight: 32 kg. (71 lbs.)
 Maximum EPA: 1.60



GR — Radial Wave
 Maximum Weight: 24 kg. (54 lbs.)
 Maximum EPA: 1.30



GS — Hallbrook
 Maximum Weight: 20 kg. (43 lbs.)
 Maximum EPA: 1.40



GY — Lyon
 Maximum Weight: 22 kg. (49 lbs.)
 Maximum EPA: 1.30

PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

GS	15AHP	12	1	B	S	51	N
1	2	3	4	5	6	7	8
LUMINAIRE	WATTAGE	VOLTAGE	MOUNTING	COLOR	UPLIGHT	OPTICS	GUARD
GB GE GP GS	15AHP 15DMH	12	1 2	B N	S	51 52	N

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE

GB	Bern
GE ¹	Hallbrook Extended
GM ^{2,3}	Milan
GN	Vienna
GP	Prague
GR ^{2,4}	Radial Wave
GS ^{2,5}	Hallbrook
GY ^{2,3}	Lyon

- 1 Not available with "U" upright
- 2 Available with 050HP and 175W only
- 3 Available with "21", "24", "25", "26", "51" and "55" optics only
- 4 Available with "21", "24", "25", "26", "51", "55", "94" and "95" optics only
- 5 Not available with "9A", "HS", or "HA" optics

STEP 2: SOURCE AND WATTAGE

HIGH PRESSURE SODIUM

Mogul Base	
050HP ¹	50W HPS
070HP	70W HPS
100HP	100W HPS
15AHP	150W/55V HPS
250HP	250W HPS
400HP ²	400W HPS
Medium Base	
50DHP ¹	50W HPS
15DHP	150W/55V HPS
70DHP	70W HPS
10DHP	100W HPS

METAL HALIDE

Mogul Base	
175MH ⁵	175W MH
250MH ⁵	250W MH
400MH ^{2,5}	400W MH
Medium Base	
70DMH ^{3,5}	70W MH
10DMH ^{3,5}	100W MH
15DMH ^{3,5}	150W MH
17DMH ^{3,5}	175W MH

STEP 2: SOURCE (CONTINUED)

PULSE START METAL HALIDE

175PM ⁴	175W MH, mogul
250PM ⁴	250W MH, mogul
320PM ^{2,4}	320W MH, mogul
350PM ^{2,4}	350W MH, mogul
400PM ^{2,4}	400W MH, mogul
Energy Saving	
25LPM	250W MH, mogul

INDUCTION

055QL	55W Induction
085QL	85W Induction

- 1 Not available with 347V
- 2 Available with compact lamp only
- 3 Not available with 347 and 480V
- 4 Meets US Federal EISA legislation
- 5 Not available for shipment in US after Dec. 31, 2008, due to EISA legislation

STEP 3: VOLTAGE

08	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40	240V, Isolated secondary
48	480V

Multivolt 120, 208, 240 & 277V

MA ¹	Factory wired for 120V only
MB ¹	Factory wired for 208V only
MC ¹	Factory wired for 240V only
MD ¹	Factory wired for 277V only

- 1 UL only

STEP 4: MOUNTING

1	Arm
2	Pendant 1.5 NPT
3 ¹	Pendant 1.25 NPT

- 1 Must be handled through TSG

STEP 5: COLOR

A	As specified
B	Black
N	Green
W	White
Z	Bronze



*Colors are just a representation. Custom colors are available upon request

STEP 6: UPLIGHT

S	Standard (no upright)
U	Uplight

STEP 7: OPTICS

Sag Glass

19 ¹	919 Small, asymmetric
1A ¹	919 Small, symmetric
20 ¹	920 Large, asymmetric
2A ¹	920 Large, symmetric

Large Cylindrical Glass

21	4521 Wide, asymmetric
24	4524 Narrow, asymmetric, 4-way
25	4525 Symmetric
26	4526 Forward throw, asymmetric

Small Cylindrical Glass

51	4551 Asymmetric
55	4555 Symmetric

Bowl Glass

72	4172 Narrow, asymmetric
73	4173 Wide asymmetric
75	4175 Symmetric

Teardrop Glass

94 ²	3094 Small, forward throw, asymmetric
95 ²	3095 Small, symmetric
9A ³	4094 Large, forward throw, asymmetric

STEP 7: OPTICS

Flat Glass

HA ^{3,4}	Horizontal lamp, square asymmetric
HS ^{3,4}	Horizontal lamp, square symmetric

- 1 Not available with cast guards
- 2 Not available with 250-400W lamps or induction
- 3 Not available with cast guards or upright
- 4 Available with medium base lamps only

STEP 8: CAST GUARD

N None

Cast Guard Door

H ¹	Vertical and horizontal ribs
V ^{1,2}	Vertical ribs only

Horizontal Cast Guard

E ²	Painted to match luminaire
F ²	Painted white

Vertical Cast Guard

C ²	Painted to match luminaire
D ²	Painted white

- 1 Customer specified paint handled through TSG
- 2 Not available with optics 19, 1A, 20, 2A, 9A, HS, or HA

STEP 9: OPTIONS

Factory Installed.

See page 62 for a complete list of options and product availability

STEP 10: ACCESSORIES

Ships Separately.

See page 62 for a complete list of accessories and product availability



METROVUE®

THE METROVUE SERIES IS A MODERN APPROACH TO STREET AND AREA LIGHTING WITH MANY FAMILIAR DESIGN ELEMENTS, DESIGNED TO PROMOTE A WARM, INVITING SPACE THAT WELCOMES POSITIVE NIGHTTIME ACTIVITY. THE LUMINAIRE FAMILY CONSISTS OF THREE DISTINCT MODELS: URBAN ARCH, URBAN YOKE, AND PEDESTRIAN YOKE, EACH DESIGNED SPECIFICALLY FOR ITS RIGHTFUL PLACE ON A PROGRESSIVE URBAN BOULEVARD, MUNICIPAL STREET, RETAIL CENTER OR COMMON AREA.



Urban Yoke



Urban Arch



Pedestrian Yoke

FEATURES AND BENEFITS

- ❑ Transitional style with arm mount or post-top mount in urban and pedestrian scaling is ideally suited for active, urban environment
- ❑ Permanent borosilicate prismatic glass optics provides efficient optical performance
- ❑ Wide variety of light distributions available for to meet many IESNA lighting standards
- ❑ Internal terminal block, universal tray and tool-less relamp offers ease of maintenance

TYPICAL APPLICATIONS

- ❑ Municipal Streets
- ❑ Urban Boulevards
- ❑ Plazas
- ❑ City Districts
- ❑ Common Areas
- ❑ Commercial Space
- ❑ Arenas and Sports Complexes

TRANSITIONAL STYLE



The MetroVue luminaire is a transitional style product targeted for boulevard and area lighting applications. This category is neither contemporary or traditional in style, but approaches a modern look with proven traditional attributes. MetroVue is a product family consisting of the Urban Arch, Urban Yoke, and Pedestrian Yoke. The three distinctive models provide an appropriate functional product familiar for the specifier or end user.

□ Urban Arch

The Urban Arch is the ultimate solution for boulevard lighting. Ideally suited for larger-scale mounting heights of 18-25 feet, the “arch” provides contemporary appeal with familiar attributes. The sleek arm flows gracefully into the luminaire housing, free of any distracting hardware and unnecessary mechanical parts that would take away from the beauty of the luminaire/arm assembly.

□ Urban Yoke

The Urban Yoke takes street, area, median mount lighting to a whole new level. Ideally suited for larger-scale mounting heights of 18-25 feet, the “yoke” provides contemporary appeal with familiar attributes. The sleek dual prongs flow elegantly into the luminaire optical housing, free of any distracting hardware and unnecessary mechanical parts that would take away from the beauty of the luminaire design.

□ Pedestrian Yoke

The Pedestrian Yoke is the perfect complement to its larger-scale counterparts. Scaled to perfection for effective pedestrian lighting, the luminaire is suited for mounting heights of 10-15’, while providing contemporary appeal with familiar attributes. The sleek dual prongs flow elegantly into the luminaire optical housing, free of any distracting hardware and unnecessary mechanical parts that would take away from the beauty of the luminaire design.

MECHANICAL FEATURES

OPTICS

The prismatic glass optical system is designed to provide optimal performance that results in high efficiency and visual comfort. Available in six different optical choices to provide IESNA full cutoff, cutoff, or semi-cutoff classifications with the popular light sources of metal halide and high pressure sodium up to 400 watts.



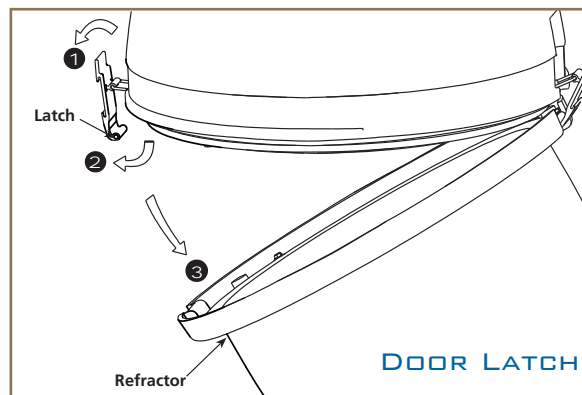
EASE OF MAINTENANCE



Access to lamp and internal components is easily accomplished by disengaging the tool-less latching system and opening the glass refractor which is hinged to the aluminum housing. Once completed, the system closes with the fit and finish of a fine automobile.

Access to ballast tray is found in the luminaire arm assembly for the Urban Arch (shown here) or in the lower housing for the yoke design.

The innovative mechanical design boasts a tool-less latching system allowing easy entry into the electrical chamber. Electrical diagnostics is exceptionally efficient by the use of an accessible ballast tray that can be removed and replaced seamlessly with plug-in electrical connections. The starting aid, which is required for certain HID sources, is located in a convenient location and can be disconnected and replaced safely and quickly.





Cast Aluminum Optical Housing with Tool-less Latch provides easy access to the lamp chamber.



Removable Ballast Door and Tray provides ease of installation and maintenance.



Urban Arch, Pedestrian Yoke and Urban Yoke provides a choice of two design styles and the a complementary smaller scale version to add to your architectural landscape



Accent Color allows flexibility in luminaire design and overall appearance.



Choice of Six Optics in either tear drop or sag glass offers a wide selection of lighting distributions.



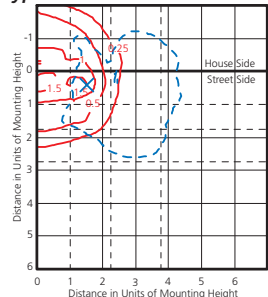
Pole Options include a variety of pole materials and styles are available to complement luminaire and site architecture

ORDERING INFORMATION

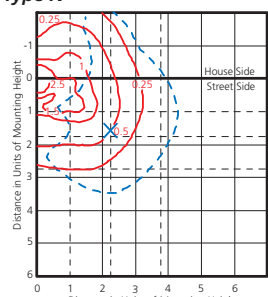
DISTRIBUTIONS

Urban Arch and Urban Yoke

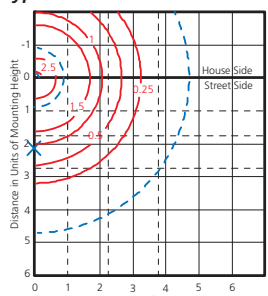
Type III



Type IV

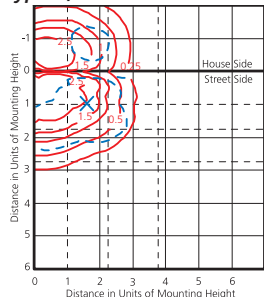


Type V

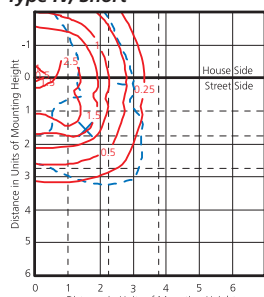


Pedestrian Yoke

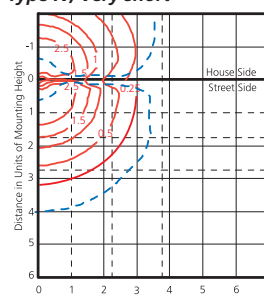
Type III, Short



Type IV, Short



Type IV, Very short



POLES



Holophane offers a full selection of pole shapes, sizes and styles to satisfy any arrangement or mix required to complete the execution of a design. With choices in steel, aluminum, round, square, decorative bases and pole top shapes, and complementary mounting arms that transition the pole shape to the luminaire, the designer is enabled to balance the luminaire/ pole combination with the architecture of the surrounding area. For complete pole information and catalog structure, please visit our website www.holophane.com or refer to the Holophane Outdoor Buyers Guide.

Photometric test number, IESNA distribution type, and cutoff classification

WATTS/ LAMP	URBAN SERIES								PEDESTRIAN SERIES			
	ARCH				YOKE				YOKE			
	Bowl			Tear Drop	Bowl			Tear Drop	Tear Drop		Sag	
	Type II	Type III	Type V	Asymmetric	Type II	Type III	Type V	Asymmetric	Asymmetric	Symmetric	Asymmetric	Symmetric
70 HPS									54598.IES IES Type IV, Very Short, Cutoff	54612.IES IES Type IV, Short, Cutoff	54597.IES IES Type III, Short, Cutoff	54614.IES IES Type IV, Short, Cutoff
150 HPS									54557.IES IES Type IV, Short, Cutoff	54616.IES IES Type IV, Very Short, Cutoff	54554.IES IES Type III, Short, Cutoff	54619.IES IES Type IV, Very Short, Cutoff
175 MH				54412.IES IES Type IV, Medium, Cutoff	54417.IES IES Type III, Short, Cutoff	54418.IES IES Type IV, Short, Semi-Cutoff	54421.IES IES Type V, Cutoff	54414.IES IES Type IV, Short, Cutoff	54542.IES IES Type IV, Short, Semi-Cutoff	54623.IES IES Type IV, Short, Cutoff	54547.IES IES Type III, Short, Cutoff	54620.IES IES Type IV, Very Short, Cutoff
250 HPS	54475.IES IES Type IV, Short, Cutoff	54480.IES	54481.IES IES Type V, Cutoff	54472.IES IES Type III, Short, Cutoff	54443	54448	54447	54449				
250 MH				54392.IES IES Type IV, Short, Cutoff								
400 MH				54391.IES IES Type IV, Short, Semi-Cutoff				54421.IES IES Type V, Cutoff				

DIMENSIONAL DETAILS



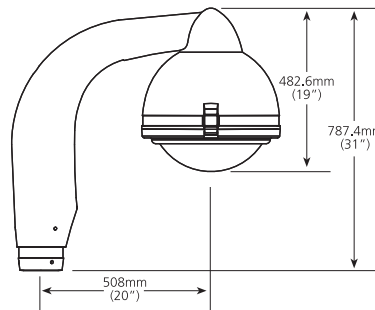
EY — Urban Yoke
Maximum Weight: 41 kg. (90 lbs.)
Maximum EPA: 2.04



EYP — Pedestrian Yoke
Maximum Weight: 19 kg. (42 lbs.)
Maximum EPA: 1.08



EA — Urban Arch
Maximum Weight: 32 kg. (71 lbs.)
Maximum EPA: 2.62



PERFORMANCE SPECIFICATIONS

General

The MetroVue luminaire is a transitional styled luminaire designed for light control and ease of installation and maintenance. The MetroVue Yoke and MetroVue Arch are designed to mount to a 4" x 6" tall tenon and is secured by six stainless steel set screws. The MetroVue Pedestrian Yoke is designed to mount to a 3" x 3" tall tenon and is secured by six stainless steel set screws.

Electrical/Reflector Assembly

The electrical compartment is shielded by a fully gasketed door. A non-conductive nylon lanyard holds the door to ballast housing. The unitized electrical module consists of the ballast mounted to a steel plate that is easily removed by loosening two screws in open slots. The disconnect plug connects the ballast to the terminal block in the wiring chamber. The socket is street lighting grade with nickel plated lamp grip shell, center contact backed by a coiled spring and glazed porcelain body. The anodized and brightened reflector is formed with flutes to control voltage rise in the lamp and to work in conjunction with the prismatic refractor to provide the desired distribution of light.

Reflector/Door Assembly

The cast aluminum optical door cradles a teardrop, bowl, or sag shaped,

thermal resistant borosilicate glass refractor that controls the light to provide an IESNA symmetric or asymmetric cutoff distribution. The combination of reflector, refractor and vertical burning lamp maximize efficiency and uniformity of illumination while controlling luminaire brightness. The refractor assembly and decorative skirt (when applicable on Pedestrian Yoke only) assembly hinges from the optical assembly and is latched by a double action hinge.

Ballast

(Refer to the Ballast Handbook for specific operating characteristics) 150 watt and below 120 volt High Pressure Sodium (HPS) ballast are High Power Factor Reactor type. All other 150 watt and below are High Power Factor Autotransformer type. 250 and 400 watt HPS ballasts are Lead type. All Metal Halide (MH) ballasts are Peak Lead Autotransformer type. The Induction lamp system utilizes a high frequency generator, power coupler, and discharge vessel (bulb).

Finish

The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability. All castings utilize alloy #356 aluminum for maximum corrosion resistance and all exposed hardware is stainless steel.

PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

EA 1 LUMINAIRE EA EY EYP	250PM 2 WATTAGE 15DMH 175PM 250PM	12 3 VOLTAGE 12	B 4 COLOR B H	4 5 OPTICS 4 5	A 6 ORIENTATION A	R 7 ACCENT COLOR R S	P 8 OPTIONS P
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CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
EA	Urban Arch
EY	Urban Yoke
EYP	Pedestrian Yoke
STEP 2: SOURCE AND WATTAGE	
EA/EY — URBAN HIGH PRESSURE SODIUM	
<u>Mogul Base</u>	
15AHP	150W/55V HPS
250HP	250W HPS
400HP	400W HPS
METAL HALIDE	
<u>Mogul Base</u>	
175MH ¹	175W MH
250MH ¹	250W MH
400MH ¹	400W MH
PULSE START METAL HALIDE	
175PM ²	175W MH, mogul
250PM ²	250W MH, mogul
320PM ²	320W MH, mogul
350PM ²	350W MH, mogul
400PM ²	400W MH, mogul
EY — PEDESTRIAN HIGH PRESSURE SODIUM	
<u>Mogul Base</u>	
050HP ¹	50W HPS
070HP	70W HPS
100HP	100W HPS
15AHP	150W/55V HPS
<u>Medium Base</u>	
35DHP	35W HPS
50DHP ¹	50W HPS
15DHP	150W/55V HPS
70DHP	70W HPS
10DHP	100W HPS
METAL HALIDE	
<u>Mogul Base</u>	
175MH ¹	175W MH
250MH ¹	250W MH
400MH ^{1,3}	400W MH
¹ Not available for shipment in US after Dec. 31, 2008, due to EISA legislation	
² (E) Meets US Federal EISA legislation	
³ Not available with 480V	

STEP 2: SOURCE (CONTINUED)	
<u>Medium Base</u>	
70DMH ^{2,3}	70W MH
10DMH ^{2,3}	100W MH
15DMH ^{2,3}	150W MH
17DMH ²	175W MH
PULSE START METAL HALIDE	
175PM ⁴	175W MH, mogul
17DPM ^{4,5}	175W MH
INCANDESCENT	
20DIN	200W Incandescent
² Not available for shipment in US after Dec. 31, 2008, due to EISA legislation	
³ Not available with 480V	
⁴ (E) Meets US Federal EISA legislation, not available with 347 or 480V	
⁵ Not available with 120V	
STEP 3: VOLTAGE	
08	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40	240V, Isolated secondary
48	480V
Multivolt 120, 208, 240 & 277V	
MA ¹	Factory wired for 120V only
MB ¹	Factory wired for 208V only
MC ¹	Factory wired for 240V only
MD ¹	Factory wired for 277V only
¹ UL only	
STEP 4: HOUSING COLOR	
B	Black
H	Graphite
L	Dark Blue
M	Brown Metallic
N	Green
W	White
Z	Bronze
A	As Specified

STEP 5: OPTICS	
Asymmetric	
2 ¹	Type II bowl glass
3 ¹	Type III bowl glass
4	Type IV tear drop glass
7	Sag glass
Symmetric	
5	Type V bowl glass
6	Sag glass
¹ Not available with EYP	
STEP 6: ORIENTATION	
A ¹	Parallel to street side
B ¹	Perpendicular to street side
¹ For Urban Yoke only - skip this step for Urban Arch	
STEP 7: ACCENT COLOR	
B	Black
L	Dark Blue
G	Gold
N	None
R	Red
S	Silver
W	White
A	As Specified
*Colors are just a representation. Custom colors are available upon request	
STEP 8: OPTIONS	
Factory Installed.	
See page 62 for a complete list of options and product availability	
STEP 9: ACCESSORIES	
Ships Separately.	
See page 62 for a complete list of accessories and product availability	



PECHINA®

THE SLEEK CONTEMPORARY LINES OF PECHINA COMBINED WITH STRONG MECHANICAL ATTRIBUTES MAKE IT A NATURAL FIT FOR MUNICIPAL, ROADWAY AND AREA APPLICATIONS.

THE LUMINAIRE, COMBINED WITH COMPLEMENTARY ARM AND POLE SELECTIONS, IS IDEALLY SUITED FOR MANY APPLICATIONS IN TODAY'S MODERN SETTINGS, AND CAN ACHIEVE DRAMATIC NIGHTTIME EFFECTS WHILE ENHANCING THE DAYTIME APPEARANCE OF THE ENVIRONMENT.



FEATURES AND BENEFITS

- ❑ Distinctive, European style with a sleek design made of premium architectural components offers a solid aluminum construction
- ❑ Superb light control ensures that light pollution is minimized
- ❑ Internal terminal block, universal tray and tool-less relamp offers ease of maintenance
- ❑ A wide selection of lamps, optics, options, and colors provide optimum choices for specifiers

TYPICAL APPLICATIONS

- ❑ Municipal Streets
- ❑ Commercial Areas
- ❑ Retail
- ❑ Schools, Colleges and Universities
- ❑ Port Authorities
- ❑ Mass Transit
- ❑ Arenas and Sport Complexes

APPLICATIONS



MECHANICAL FEATURES

OPTICS

Optical choices are critical in meeting today's criteria for both area and roadway lighting applications. The Pechina luminaire offers three asymmetric lighting patterns designed to provide optimal performance while providing control required to protect from light trespass and unwanted light emitted into the night sky.

The luminaire has both a flat glass and sag glass optics and can provide IESNA full cutoff, cutoff, or semi-cutoff distributions. An external shield is available to prevent unwanted lighting behind the pole and adjacent properties.



EASE OF MAINTENANCE

Ease of installation and maintenance were integrated into the Pechina luminaire design. The universal mounting system provides for either a tenon or arm mount configuration eliminating the need to maintain multiple luminaires for a given project. The tool-less aluminum latch allows for ease of entry into the ballast and lamp compartment. Once the latch is disengaged, the canopy of the luminaire is "lifted up" for service. No need for the service crew to handle cumbersome door assemblies during routine maintenance, improving both safety and efficiency. A prewired internal terminal block allows for quick power connections. Lamp and electrical components are easily accessible for quick maintenance.



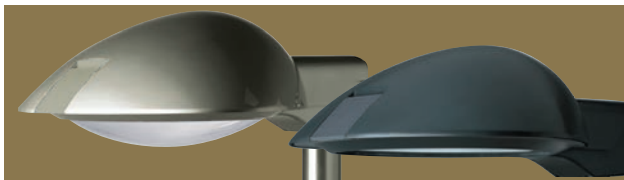


Cast Aluminum Housing has a sleek contemporary design

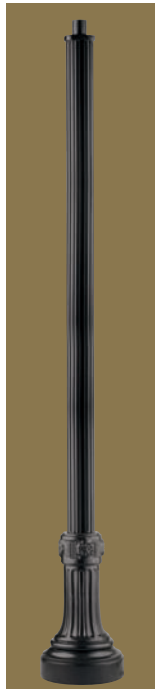


Tool-less Latch provides ease of installation and maintenance.

Universal Mounting System for Arm or Tenon Mount provides a choice of a vertical tenon or horizontal arm mount



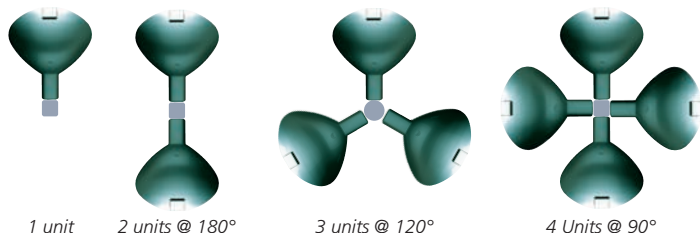
Choice of Two Optics in either flat or sag glass offers a variety of lighting distributions.



Pole Options include a variety of pole materials and styles are available to complement luminaire and site architecture

ORDERING INFORMATION

POLES



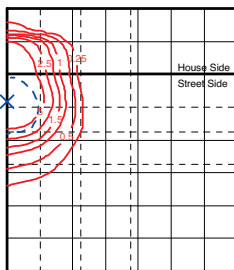
Pole Configurations and Material Information

Holophane offers a full selection of pole shapes, sizes and styles to satisfy any arrangement or mix required to complete the execution of a design. With choices in steel, aluminum, round, square, decorative bases and pole top shapes, and complementary mounting arms that transition the pole shape to the luminaire, the designer is enabled to balance the luminaire/pole combination with the architecture of the surrounding area. For complete pole information and catalog structure, please visit our website www.holophane.com or refer to the Holophane Outdoor Buyers Guide.

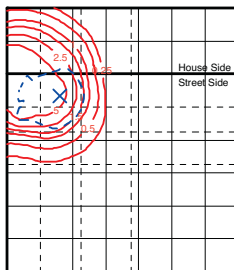


DISTRIBUTIONS

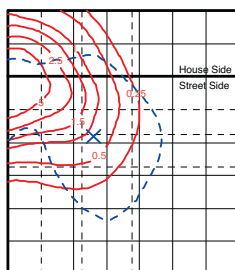
Forward Throw



Narrow Throw



Wide Distribution



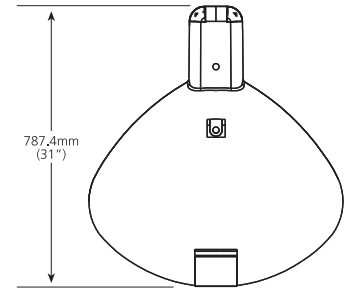
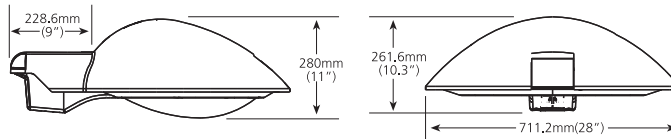
Photometric test number, IESNA distribution type, and cutoff classification

		HIGH PRESSURE SODIUM			METAL HALIDE		
		150W HPS	250W HPS	400W HPS	175W MH	250W MH	400W MH
FORWARD THROW	Flat	102399.IES IES Type II, Short, Full Cutoff	102429.IES IES Type III, Very Short, Full Cutoff	102497.IES IES Type III, Very Short, Full Cutoff	102475.IES IES Type II, Very Short, Full Cutoff	102470.IES IES Type II, Very Short, Full Cutoff	102505.IES IES Type II, Very Short, Full Cutoff
	Sag	102398.IES IES Type II, Short, Cutoff	102430.IES IES Type III, Very Short, Cutoff	102500.IES IES Type III, Very Short, Cutoff	102478.IES IES Type II, Very Short, Cutoff	102442.IES IES Type II, Very Short, Cutoff	102508.IES IES Type II, Very Short, Cutoff
NARROW ASYMMETRIC	Flat	102395.IES IES Type II, Short, Full Cutoff	102433.IES IES Type II, Short, Full Cutoff	102504.IES IES Type III, Short, Full Cutoff	102481.IES IES Type II, Short, Full Cutoff	102465.IES IES Type I, Short, Full Cutoff	102509.IES IES Type I, Very Short, Full Cutoff
	Sag	102396.IES IES Type II, Short, Cutoff	102440.IES IES Type II, Short, Cutoff	102501.IES IES Type II, Short, Cutoff	102484.IES IES Type II, Short, Cutoff	102466.IES IES Type III, Short, Cutoff	102512.IES IES Type II, Short, Cutoff
WIDE ASYMMETRIC	Flat	102414.IES IES Type III, Short, Full Cutoff	102432.IES IES Type IV, Short, Full Cutoff	102496.IES IES Type IV, Short, Full Cutoff	102474.IES IES Type III, Short, Full Cutoff	102441.IES IES Type III, Short, Full Cutoff	102513.IES IES Type III, Short, Full Cutoff
	Sag	102416.IES IES Type IV, Short, Semi-Cutoff	102431.IES IES Type IV, Short, Semi-Cutoff	102493.IES IES Type IV, Medium, Semi-Cutoff	102628.IES IES Type IV, Short, Semi-Cutoff	102443.IES IES Type IV, Short, Semi-Cutoff	102516.IES IES Type IV, Medium, Semi-Cutoff

DIMENSIONAL DETAILS



Maximum Weight: 25 kg. (55 lbs.)
Maximum EPA: 0.8



PERFORMANCE SPECIFICATIONS

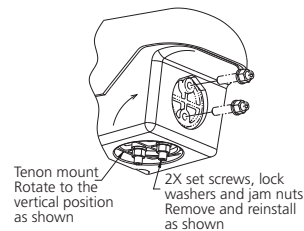
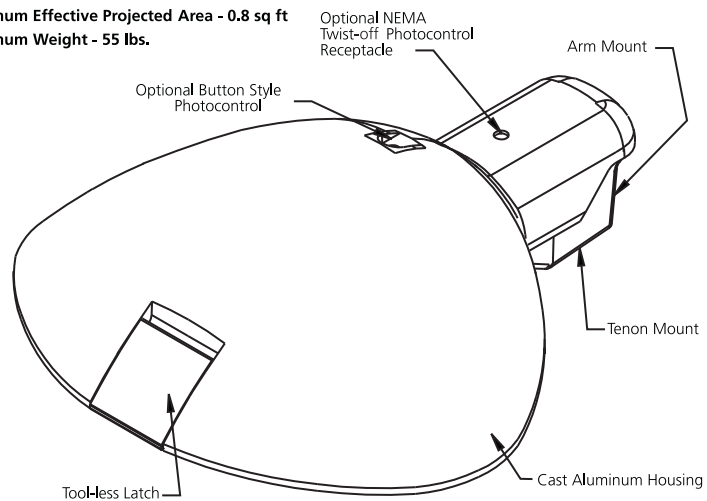
General

Luminaire shall be Holophane Pechina, Catalog No. P _____. It shall consist of mounting, optical, support and electrical systems.

The luminaire shall consist of a curved sag glass or a flat glass housed in a cast aluminum alloy body. The glass lens shall be thermal resistant. The body shall be comprised of a door frame and canopy which houses the integral control gear to suit a wide range of high intensity discharge lamps. The optical assembly shall consist of an anodized asymmetric distribution reflector. A corrosion resistant aluminum latch providing tool-less access for maintenance shall secure the door/canopy assembly. A silicon gasket ensuring that the IP66 rating is maintained shall seal the canopy and door.

The universal mounting system can be secured on a 2.38 inch to 3.0 inch O.D. by 5.5-inch tall vertical tenon, or on a 1.88 inch to 2.38 inch O.D. by 7.5-inch long minimal horizontal arm.

Maximum Effective Projected Area - 0.8 sq ft
Maximum Weight - 55 lbs.



PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

P 1 LUMINAIRE P	250PM 2 WATTAGE 175PM 250PM 320PM	MT 3 VOLTAGE MT	F 4 DISTRIBUTION F	F 5 OPTICS F S	GR 6 FINISH BK GR	R 7 OPTIONS PS R
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CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
P	Pechina
STEP 2: SOURCE AND WATTAGE	
HIGH PRESSURE SODIUM	
<u>Mogul Base</u>	
15AHP	150W/55V HPS
100HP	100W HPS
250HP	250W HPS
400HP¹	400W HPS
<u>Medium Base</u>	
10DHP	100W HPS
15DHP	150W/55V HPS
70DHP	70W HPS
METAL HALIDE	
<u>Mogul Base</u>	
175MH²	175W MH
250MH²	250W MH
400MH^{1,2}	400W MH
<u>Medium Base</u>	
70DMH^{2,3}	70W MH
10DMH^{2,3}	100W MH
15DMH^{2,3}	150W MH
17DMH^{2,3}	175W MH
PULSE START METAL HALIDE	
175PM⁴	175W MH, mogul
250PM⁴	250W MH, mogul
320PM⁴	320W MH, mogul
350PM⁴	350W MH, mogul
400PM⁴	400W MH, mogul
¹ Requires use of ET18 or ED18 lamps only	
² Not available for shipment in US after Dec. 31, 2008, due to EISA legislation	
³ Not available with 480V	
⁴ Meets US Federal EISA legislation	

STEP 3: VOLTAGE	
08¹	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40¹	240V, Isolated secondary
48	480V
MT	Multivolt
Multivolt 120, 208, 240 & 277V	
MA	Factory wired for 120V only
MB	Factory wired for 208V only
MC	Factory wired for 240V only
MD	Factory wired for 277V only
¹ Must be handled through TSG	
STEP 4: DISTRIBUTION	
F	Forward throw, asymmetrical frontal
N	Narrow distribution, asymmetrical longitudinal street
W	Wide distribution, asymmetric street
STEP 5: OPTICS	
F	Flat glass
S	Sag glass

STEP 6: FINISH	
BD	Dark Blue
BK	Black
BM	Brown Metallic
BZ	Bronze
GH	Graphite
GN	Green
GR	Gray
WH	White
AS	As Specified
*Colors are just a representation. Custom colors are available upon request	
STEP 7: OPTIONS	
Factory Installed.	
See page 63 for a complete list of options and product availability	
STEP 8: ACCESSORIES	
Ships Separately.	
See page 63 for a complete list of accessories and product availability	



MONGOOSE®

THE MONGOOSE ROADWAY AND AREA LIGHTING LUMINAIRE OFFERS PARAMOUNT VERSATILITY OF APPLICATIONS WITH ADVANCED OPTICAL SYSTEMS AND AN AESTHETICALLY PLEASING DESIGN. THE ABILITY TO CONFIGURE THE MONGOOSE OPTICS, TILT, AND MOUNTING METHOD TO MEET SPECIFIC APPLICATIONS ENABLES IT TO BE USED IN DIVERSE APPLICATIONS RANGING FROM INTERSTATES TO PARKING LOTS.



*Flat Glass Optics
(Architectural Arm)*

*Drop Glass Optics
(with tenon mount)*

*Flat Glass Optics
(2 units in a line)*

*Flat Glass Optics
(with horizontal arm mount)*

FEATURES AND BENEFITS

- ❑ Up to 14 optical configurations provides a vast range of lighting distributions
- ❑ Variable tilts between 0° and 45° on four mounting options offers unparalleled solutions for a multitude of lighting requirements
- ❑ Full cutoff through semi-cutoff distributions providing optical flexibility where required
- ❑ Superior product features increases safety, and provides economical and energy efficiency

TYPICAL APPLICATIONS

- ❑ Municipalities
- ❑ Commercial Developments
- ❑ Residential Streets
- ❑ Parking Lots
- ❑ Airports
- ❑ Institutional
- ❑ Power Plants
- ❑ Highways
- ❑ Railways
- ❑ Correctional Facilities

ENERGY EFFICIENT ARCHITECTURAL APPEAL



ATTRACTIVE OPTICAL DESIGN

OPTIMUM ENERGY EFFICIENCY

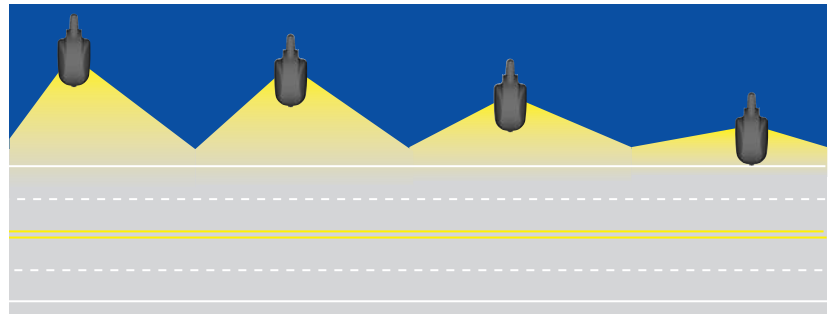
The Mongoose luminaire offers advanced optical light control in an aesthetically pleasing design to complement any landscape architecture. It has been designed to offer 14 advanced optical systems ensuring superior performance that offers energy efficiency, ease of maintenance and safety.

□ Architectural Appearance

The Mongoose luminaire was designed to provide an attractive alternative to traditional shoebox and cobrahead luminaires. The 21st century design allows optimum performance in a sleek design. Whether illuminating an auto dealership, a parking lot, or a parkway, the Mongoose luminaire can be built to provide the look you need and the illumination that you require!

□ Energy Efficiency and Economics

State of the art materials, coupled with 14 advanced optical systems, ensure optimal performance for any application. Large area lighting, forward throw, flood lighting, roadway, offset, sports, and high mast lighting are optimized with Mongoose luminaires. Spacing of up to ten times the mounting height are possible with the advanced optical systems. Fewer poles, less energy consumption, and improved light distribution result in lower life-cycle cost. First cost and maintenance costs are reduced as fewer vehicles and personnel are required and lane closures are minimized.



□ Safety

The Mongoose luminaire offers an unparalleled variety of optical choices to maximize safe driving at the lowest cost. Increased illumination on vertical surfaces enhances visibility. Because poles can be set back up to 50 feet, the visual field is maximized and allows recognition of hazards earlier than typical roadway applications. The larger "clear zone" increases driver and maintenance personnel safety. Pole top mounting of luminaire reduces glare associated with traditional systems and pole knockdowns.

MECHANICAL FEATURES

OPTICS

Advanced Optical Light Control

The Mongoose luminaire provides the best combination of vertical and horizontal illumination. Unparalleled uniformity eliminates hot spots on the road. At the heart of the Mongoose luminaire is a revolutionary optical system, which allows for long spacings, wide roadway coverage, and low glare.

The unique design of the Mongoose forward throw reflector allows significantly enhanced performance over traditional designs. The vertical lamp orientation minimizes hot spots while allowing maximum spacing. A revolutionary stepped reflector virtually eliminates



spill light behind the pole.

A generous optical chamber in the Mongoose luminaire permits the use of vertical lamp orientation, maximizing spacing with optimum uniformity. The unique square

pattern ensures that light travels between poles, which reduces dark areas common to horizontal lamp units.

Segmented or parabolic hydro-formed optical systems put the light where it is desired. With the extensive optical choices available, spill light is eliminated and uniformity in the target area is maximized. For light pollution concerns, the flat glass and clear drop glass options eliminate upright while providing maximum spacings.

LOW AND HIGH TILT

The Mongoose luminaire is available in a choice of two tilts – “low tilt” or “high tilt” for flexibility in specifying the luminaire based upon your particular application requirements.



Low Tilt (0° to 18°)

Low tilt Mongoose luminaires can be tilted between 0° and 18° and provide full cutoff, cutoff, and semi-cutoff distributions. For areas with night skies concerns, low tilt provides a solution to light trespass issues. Mongoose luminaires with low tilt are most frequently used in areas that are typically lit by cobrahead or shoebox fixtures.

- May be set back up to 20 feet from road for optimal performance
- Two or four lane coverage
- Choice of three refractors – flat glass, clear drop glass, and prismatic refractor
- Optics for full cutoff, cutoff, and semi-cutoff distributions
- 100 – 400W HPS and MH
- Narrow and wide distribution patterns

High Tilt (27° to 45°)

High tilt Mongoose luminaires can be tilted between 27° and 45°. Mongoose luminaires with high tilt are offset luminaires that are typically mounted up to 1.5 mounting heights off the roadway. In addition, offset luminaires are also extensively used in institutional, correctional, and industrial applications for perimeter and security lighting.

- May be set back 15 to 50 feet from roadway for optimal performance
- Up to six lane coverage
- Choice of two refractors - clear drop glass and prismatic refractor
- 100 – 400W HPS and MH
- Narrow and wide distribution patterns

EASE OF MAINTENANCE



Maintenance is simplified as all systems are interchangeable. A common electrical assembly allows electrical components to be replaced in less than one minute without the use of tools. Installation and maintenance are also eased due to the fixture mounting on top of the pole opposed to an arm extended over the roadway.



APPLICATIONS

IDEALLY SUITABLE FOR MUNICIPAL BOULEVARDS IN A MODERN URBAN SETTING, THE LIGHTING SYSTEM PERFORMS WELL AT OVERALL HEIGHTS BETWEEN 20 AND 30 FEET. FURTHERMORE, EFFECTIVELY ILLUMINATE AND ENHANCE COMMERCIAL PLAZAS, CAMPUSES, WATERFRONTS AND OUTDOOR RETAIL CENTERS.





Heavy Duty Die Cast Ballast provides ease of maintenance and energy savings



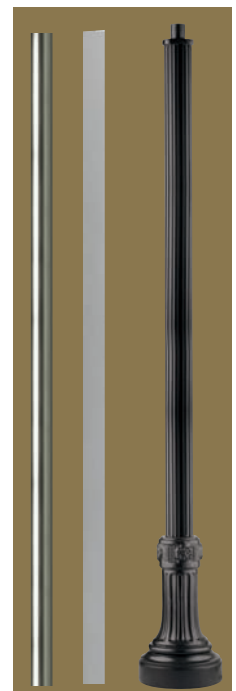
A Variety of Glass and Tilt Options offers 14 optical light distributions



Quick Disconnect provides ease of maintenance



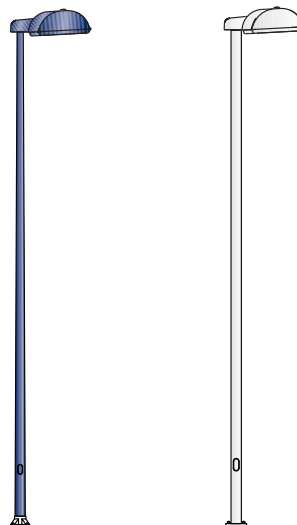
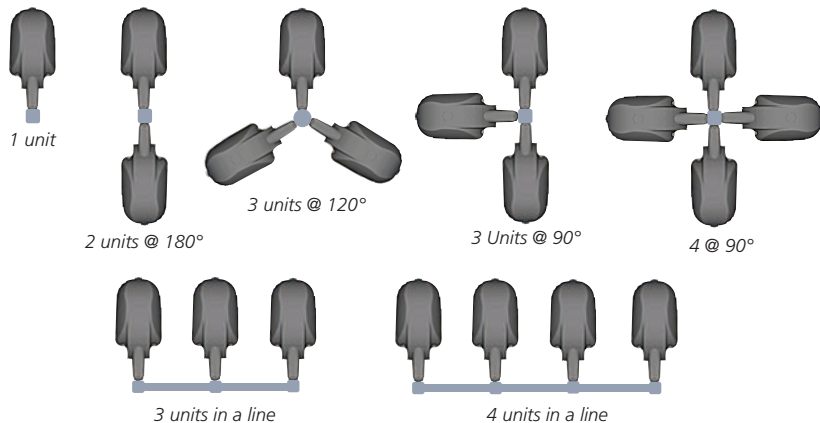
A Variety of Mounting Options offers versatile design choices



Variety of Pole Choices fit any site architecture

ORDERING INFORMATION

POLES



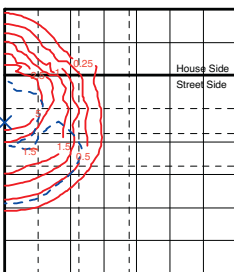
Pole Configurations and Material Information

Holophane offers a full selection of pole shapes, sizes and styles to satisfy any arrangement or mix required to complete the execution of a design. With choices in steel, aluminum, round, square, decorative bases and pole top shapes, and complementary mounting arms that transition the pole shape to the luminaire, the designer is enabled to balance the luminaire/pole combination with the architecture of the surrounding area. For complete pole information and catalog structure, please visit our website www.holophane.com or refer to the Holophane Outdoor Buyers Guide.

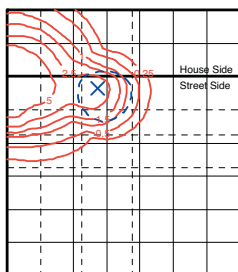


DISTRIBUTIONS

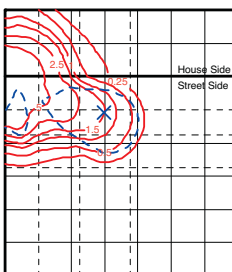
Forward Throw



Narrow Throw

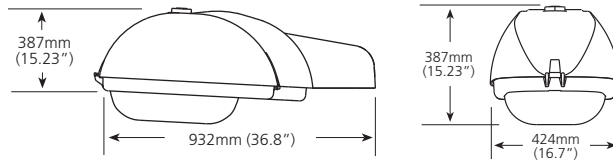


Wide Distribution



Watts/Lamp	Narrow Roadway			Wide Roadway			Forward Throw		Square		Offset-Narrow		Offset-Medium		Offset-Wide	
	Flat Glass LNF	Clear Drop LNC	Prismatic Refractor LNR	Flat Glass LWF	Clear Drop LWC	Prismatic Refractor LWR	Flat Glass LFF	Clear Drop LFC	Flat Glass LSF	Clear Drop LSC	Clear Drop HNC	Prismatic Refractor HNR	Clear Drop HDC	Prismatic Refractor HDR	Clear Drop HWC	Prismatic Refractor HWR
100 HPS	49293 I, M, FCO	51853 II, M, CO	49498 I, M, CO	49416 III, M, FCO	51851 III, M, CO	49499 II, M, CO										
150 HPS	49274 I, M, FCO	51850 II, M, CO	49506 I, M, CO	49419 III, M, FCO	51854 III, M, CO	494513 II, M, CO	51431 IV, VS, FCO	51444 IV, S, NCO		51151 IV, M, SCO	49739 IV, L, NCO	49738 IV, L, NCO	101210 III, M, NCO	101290 III, L, NCO	49922 IV, L, NCO	49923 IV, L, NCO
175 MH	49488 I, M, FCO	51876 I, M, CO	49418 I, M, CO	49449 II, M, FCO	51875 II, M, CO		51449 IV, VS, FCO	51443 IV, M, NCO	51048 III, S, FCO	51039 IV, VS, SCO	49747 III, M, NCO	49745 IV, L, NCO	101292 II, M, NCO	101291 III, M, NCO	49983 IV, L, NCO	49984 IV, L, NCO
250 HPS	49260 II, M, FCO	51562 II, M, CO	49427 II, M, CO	49395 III, M, FCO	51844 III, M, CO	49524 II, M, CO	51437 IV, VS, FCO	51440 IV, S, SCO		51135 IV, M, SCO	49736 III, M, NCO	49734 IV, M, NCO	50379 III, M, NCO	50380 III, M, NCO	49986 IV, M, NCO	49985 III, M, NCO
250 MH	49296 I, M, FCO	51868 II, M, CO		49420 III, M, FCO	51849 III, M, CO		51452 IV, VS, FCO	51442 IV, S, NCO	51046 III, S, FCO	51041 IV, VS, SCO	49757 IV, L, NCO	49758 IV, L, NCO	101299 III, M, NCO	101298 III, M, NCO	50000 IV, L, NCO	49999 IV, L, NCO
400 HPS	49257 II, M, FCO	51561 II, M, CO	49482 II, M, CO	49396 III, M, FCO	51843 III, M, CO	49484 II, M, CO	51419 IV, VS, FCO	51417 IV, S, SCO		51132 IV, M, SCO	49730 IV, M, NCO	49732 III, M, NCO	50347 III, M, NCO	50346 III, M, NCO	49899 IV, M, NCO	49900 IV, L, NCO
400 MH	50281 II, S, FCO	52307 II, M, CO	50278 II, M, CO	50276 II, M, FCO	52306 II, M, CO	50279 II, M, CO				51031 IV, VS, NCO	49291 II, M, NCO	49530 II, M, NCO	101300 III, L, NCO	101302 III, M, NCO	49982 III, M, NCO	49981 III, M, NCO
400 MH Compact							51448 IV, VS, FCO	51441 IV, S, NCO	51055 III, S, FCO							

DIMENSIONAL DETAILS



Maximum Weight: 25 kg. (55 lbs.)
Maximum EPA: 0.8

PERFORMANCE SPECIFICATIONS

Luminaire shall be Holophane Mongoose®, Catalog No. G _____. It shall consist of mounting, optical, support and electrical systems as well as finish cover and will provide certain performance characteristics as follows:

Mechanical Construction:

The housing, door and fitter shall be die cast aluminum. They shall undergo a six stage cleaning and pretreatment process and over-coated with an electrostatically applied 2 to 4 mil coat of TGIC polyester powder paint cured at 425°F. The finish shall withstand a 160 inch-pound impact measured with a standard Gardner impact tester. It shall have passed a 1000 hour salt spray test as specified by ASTM B-117. It shall exhibit no cracking or loss of adhesion from a 180° bend over a 1/8" mandrel diameter per ASTM D522. All external hardware shall be corrosion resistant. Housing access shall not require tools. The fitter shall be built in and accommodate a standard 2 inch tenon or arm. Units can be tilted between 0° and 18° or 27° and 45°. Electrical connection shall be inside the fitter assembly and not require fixture entry. A terminal block located inside the fitter shall be provided if specified.

Quick Disconnect Electrical Assembly:

The fixture door shall contain all ballast components and be hinged for fast tool-free removal and replacement. Complete replacement shall take less than 60 seconds.

Ballast:

Shall be copper wound, high power factor type as specified. It shall reliably start the lamp in ambient temperatures to minus 40°F. The plug-in HPS starter shall be totally encapsulated with a material that electrically and thermally insulates all components from lamp and ballast heat. A protected starter, if specified, shall sense an inoperative lamp and shut down automatically to prevent continuous pulsing and thermal damage to itself and the ballast secondary winding. The Mongoose luminaire is UL/CUL listed for 40°C ambient. (347V, 400W HPS restricted to 25°C ambient.)

Optical and Socket Assembly:

The reflector shall consist of high purity (#3002 alloy) aluminum of minimum 0.08" thick sheet. Flat lens shall be 1/8" fully tempered glass. Pressed prismatic or clear drop lens shall be manufactured of borosilicate glass. The reflector and lens optical assembly shall be designed to provide the IESNA pattern specified. The socket shall be pulse rated, nickel-plated and lamp grip porcelain enclosed. It shall prevent undue lamp vibration and withdrawal.

ANSI Lamp Label:

A self-adhesive label shall be provided which identifies the lamp type and size. It shall meet ANSI C-136 standards.

Warranty:

The electrical assembly shall be fully warranted for a period of 6 years and the housing for a period of 2 years from the date of manufacture.

PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

G	400PM	MA	L	WF	A	G	R
1	2	3	4	5	6	7	8
LUMINAIRE	WATTAGE	VOLTAGE	TILT RANGE	OPTICS	MOUNTING	FINISH	OPTIONS
G	175PM 250PM 400PM	MA	L	FC WF	A H	G K	P R

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
G	Mongoose
STEP 2: SOURCE AND WATTAGE	
HIGH PRESSURE SODIUM	
Mogul Base	
15AHP	150W/55V HPS
100HP	100W HPS
200HP	200W HPS
250HP	250W HPS
400HP	400W HPS
Energy Saving	
25LHP	250W HPS
40LHP	400W HPS
METAL HALIDE	
Mogul Base	
175MH ¹	175W MH
250MH ¹	250W MH
400MH ¹	400W MH
Energy Saving	
40LMH ¹	400W HPS
PULSE START METAL HALIDE	
175PM ²	175W MH
250PM ²	250W MH
400PM ²	400W MH
Energy Saving	
40LPM ²	400W HPS
<small>1 Not available for shipment in US after Dec. 31, 2008, due to EISA legislation</small>	
<small>2 Meets US Federal EISA legislation</small>	

STEP 3: VOLTAGE	
08 ¹	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40 ¹	240V, Isolated secondary
48	480V
MT	Multivolt, 120-277V
VT	Varitap, 120-347V
Multivolt 120, 208, 240 & 277V	
MA	Factory wired for 120V only
MB	Factory wired for 208V only
MC	Factory wired for 240V only
MD	Factory wired for 277V only
<small>1 Must be handled through TSG</small>	
STEP 4: TILT RANGE	
L	Low tilt, 0 - 18°
H	High tilt, 27 - 45°

STEP 5: OPTICS	
Medium Roadway	
DC ²	Clear drop glass
DR ²	Prismatic refractor
Forward Throw	
FC ^{1,4}	Clear drop glass
FF ^{1,4}	Flat glass
Narrow Roadway	
NC ³	Clear drop glass
NF ¹	Flat glass
NR	Prismatic refractor
Flood	
ND ²	Narrow
WD ²	Wide
Square Distribution	
SC ¹	Clear drop glass
SF ^{1,4}	Flat glass for 175, 250 and 400W MH
Wide Roadway	
WC	Clear drop glass ³
WF ¹	Flat glass
WR	Prismatic refractor
<small>1 Available with "L" tilt range only</small>	
<small>2 Available with "H" tilt range only</small>	
<small>3 "L" Comes with shallow glass optic</small>	
<small>4 400MH must use compact lamp</small>	

STEP 6: MOUNTING	
A	Architectural arm
H	Horizontal arm
T	Yoke mount
V	Vertical tenon
STEP 7: FINISH	
K	Black
G	Gray
N	Green
W	White
Z	Bronze
<small>*Colors are just a representation. Custom colors are available upon request</small>	
STEP 8: OPTIONS	
Factory Installed.	
<i>See page 63 for a complete list of options and product availability</i>	
STEP 8: ACCESSORIES	
Ships Separately.	
<i>See page 63 for a complete list of accessories and product availability</i>	



POLESTAR® II

POLESTAR LUMINAIRES PROVIDE A VARIETY OF EXPRESSIONS TO COMPLEMENT ANY ARCHITECTURAL DESIGN WHILE ALSO SATISFYING THE REQUIREMENT FOR A FUNCTIONAL AND MAINTAINABLE LIGHTING SYSTEM. THE DISTINCTIVE EUROPEAN STYLING WILL COMPLEMENT ANY BUILDING'S FAÇADE WHILE THE PRECISELY ENGINEERED OPTICS PROVIDE A SAFE, UNIFORM LIGHTING ENVIRONMENT.



Round Cover
(with linear arm)

Square Cover
(with arched arm)

Round Cover
(with post top)

Octal Cover
(with arched arm)

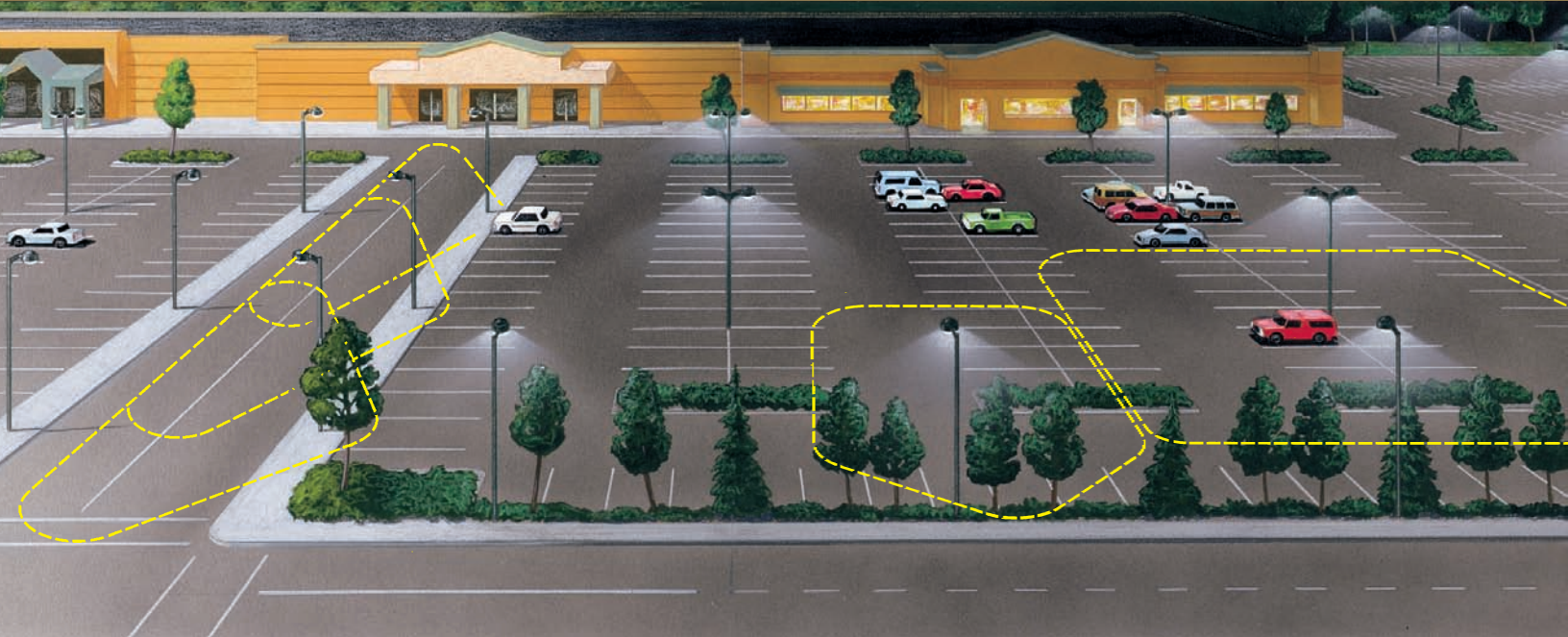
FEATURES AND BENEFITS

- ❑ A wide choice of architecturally styled covers and arms provides a modern style
- ❑ Open and enclosed optics offers a wide range of lighting distributions, including full cutoff
- ❑ Exceptional lighting design creates a visually comfortable environment
- ❑ Electrical and ballast component design provides long life and ease of maintenance

TYPICAL APPLICATIONS

- ❑ Parking Areas
- ❑ Developments
- ❑ Malls
- ❑ Boulevards
- ❑ Parkways

VISUAL COMFORT AND LIGHTING UNIFORMITY



Presenting a continuous aesthetic theme for an outdoor area is very important. However, parking areas have a variety of lighting distribution needs: asymmetric for the driveway lanes, forward throw for perimeter lighting, and symmetric for the main parking section. The challenge is to create a quality lighting landscape while maintaining a consistent theme.

The PoleStar luminaire fulfills the requirements for a pleasant daytime appearance and high performance lighting at night.

Exceptional lighting design takes into account more than raw illuminance data. Uniformity is also a critical consideration. When people move through an area that has inconsistent, non-uniform lighting, their eyes must constantly adjust to the different light levels, which creates a feeling of stress and discomfort. To provide optimum uniformity in lighting an area with one style of luminaire, the system must have a variety of light distributions available. When those distributions are combined in a complementary design, an effective and professional composition can be achieved.

Lighting Distributions

Square

Square distribution accounts for the majority of lighting for large areas. The PoleStar luminaire's square distribution combines a metalized, borosilicate glass reflector with highly specular aluminum. This combination provides a highly efficient optical configuration with a wide, uniform lighting distribution.

Asymmetric

Access roads and irregularly shaped areas are places to utilize asymmetric distribution optics. Mounting two luminaires with asymmetric optics back to back is also an effective solution to create a long, rectangular distribution for the larger parking areas. The PoleStar asymmetric optical system incorporates a hydro-formed aluminum reflector to provide a long, narrow distribution. The optical system can be rotated in the field so luminaire location is not restricted.

Forward Throw

To provide optimal space in a large area, particularly parking areas, lighting from the perimeter is required. The PoleStar luminaire can provide the designer with this important option. The hydro-formed reflector directs the light forward in an extended pattern, maximizing pole spacing, and minimizing the number of poles required. This optical system can also be rotated in the field.

Open Optics

PoleStar luminaires offer unique open optical systems. The system does not require a bottom enclosure, which increases its overall efficiency. Because the borosilicate glass reflectors are impervious to natural elements, dirt depreciation degradation is minimal over long periods of time versus other open optical systems with metal reflectors. Open optical systems are available in the square and forward throw distributions.

MECHANICAL FEATURES

By incorporating the electrical components into the arm and away from the heat of the lamp, PoleStar luminaires offer long service life for the ballast and capacitor. Furthermore, maintenance is simplified since the ballast components are separate from the lamp chamber. Choice of glass, aluminum optical devices, or combination of both, allows the designer to optimize the advantages of using PoleStar luminaires.

OPTICAL SYSTEM



SPECIFICATIONS

Square Distribution - Enclosed: The optical system shall utilize a rear surface metalized borosilicate glass reflector with a Miro4™ specular band combined with the vertical lamp and pressed borosilicate glass roundel to produce a square distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Square Distribution - Open: The optical system shall utilize a rear surface metalized borosilicate glass reflector and a vertical lamp with no glass roundel to produce a square distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Asymmetric Distribution - Enclosed: The optical system shall utilize a one piece, hydro-formed aluminum reflector, a horizontal lamp and a pressed borosilicate glass roundel to produce an asymmetric distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Forward Throw Distribution - Enclosed Aluminum: The optical system shall utilize a one piece, hydro-formed aluminum reflector, a horizontal lamp and a pressed borosilicate glass roundel to produce a forward throw distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Forward Throw Distribution - Enclosed Glass: The optical system shall utilize a half metalized rear surface borosilicate glass reflector, a vertical lamp and a pressed borosilicate glass roundel to produce a forward throw distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Forward Throw Distribution - Open Glass: The optical system shall utilize a half metalized rear surface borosilicate glass reflector and a vertical lamp with no glass roundel to produce a forward throw distribution pattern. It shall be classified as an IESNA "cutoff" or "full cutoff" distribution.

Miro® 4 is a Registered Trademark of Alanod

MOUNTING SYSTEM

SPECIFICATIONS

Arched Arm: This system shall be comprised of a cast aluminum arm with opening. The arm shall contain the prewired electrical assembly, mounted on the door.

Solid Arm: This system shall be comprised of a cast aluminum arm with solid web. The arm shall contain the prewired electrical assembly, mounted on the door.

Linear Arm: This system shall be comprised of a cast aluminum arm with aluminum access plate. The arm shall contain the prewired electrical assembly.

Post Top: This system shall be comprised of a cast aluminum ballast pod with twin aluminum tube supports. The pod shall contain the prewired electrical assembly.



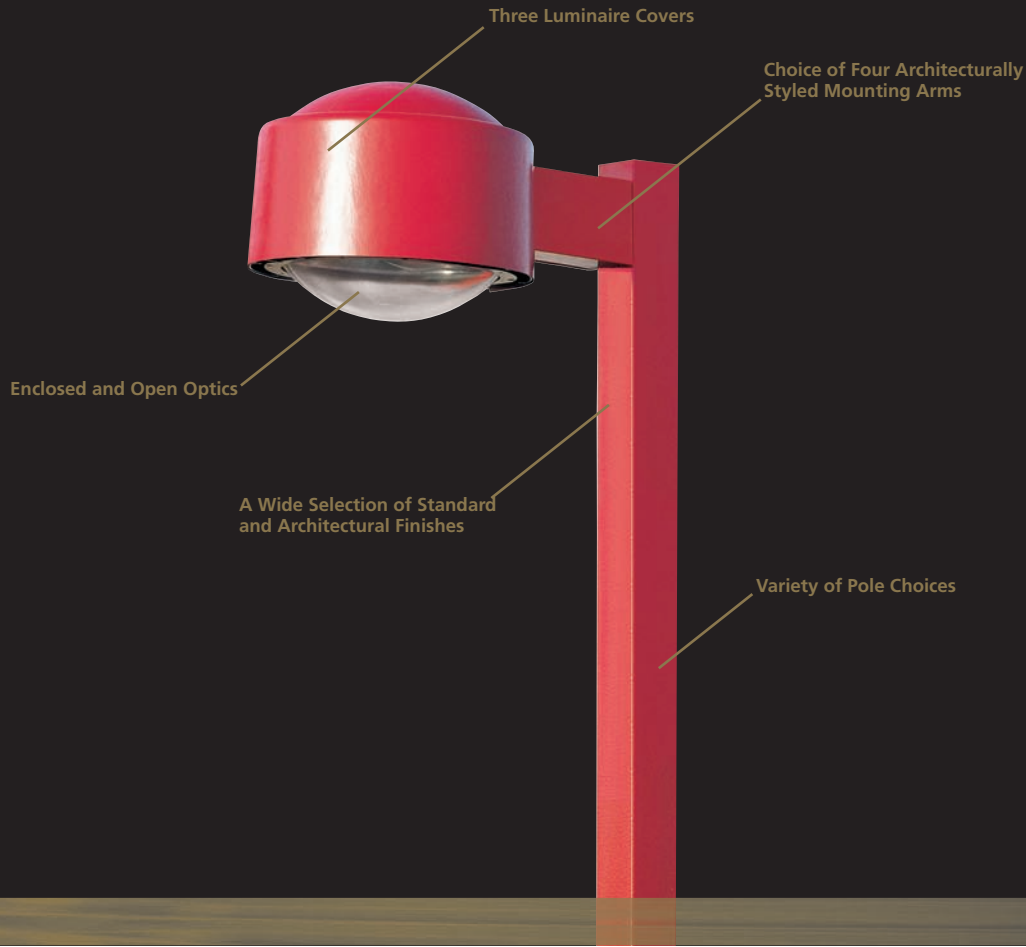


APPLICATIONS

POLESTAR LUMINAIRES PROVIDE A VARIETY OF EXPRESSIONS TO COMPLEMENT MANY ARCHITECTURAL DESIGNS WHILE ALSO SATISFYING THE REQUIREMENT FOR A FUNCTIONAL, MAINTAINABLE LIGHTING SYSTEM.

SELECTING FROM GLASS OR ALUMINUM REFLECTORS ALLOWS THE DESIGNER TO OPTIMIZE THE ADVANTAGES OF THE SYSTEM FOR PARKING AREAS, MALLS, PARKWAYS AND UPSCALE DEVELOPMENTS. POLESTAR FULFILLS THE REQUIREMENT FOR AESTHETICS DURING THE DAY AND HIGH PERFORMANCE LIGHTING AT NIGHT.

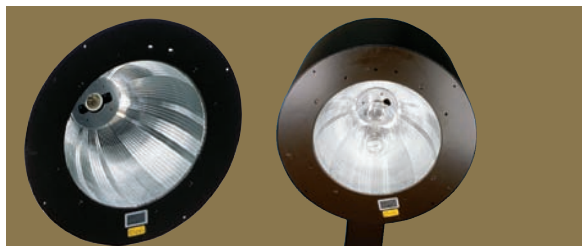
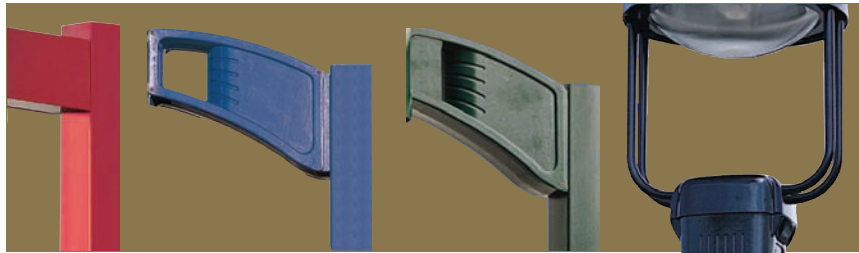




Three Luminaire Covers available in three distinctive shapes offers a variety of design options



Choice of Four Architecturally Styled Mounting Arms combined with the choice of three covers allows designer to create a pleasant daytime appearance and a continuous theme throughout the landscape design



Enclosed and Open Optics offers a wide variety of lighting distributions

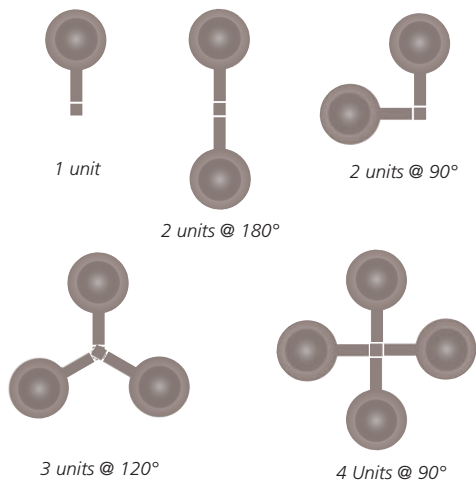
A Wide Selection of Standard and Architectural Finishes enhances theme throughout the landscape design



Variety of Pole Choices are available to complement luminaire and site architecture

ORDERING INFORMATION

POLES

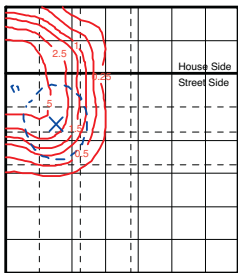


Pole Configurations and Material Information

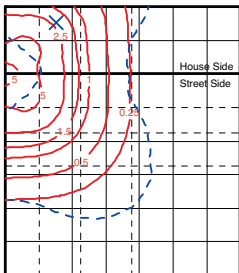
Holophane offers a full selection of pole shapes, sizes and styles to satisfy any arrangement or mix required to complete the execution of a design. With choices in steel, aluminum, round, square, decorative bases and pole top shapes, and complementary mounting arms that transition the pole shape to the luminaire, the designer is enabled to balance the luminaire/pole combination with the architecture of the surrounding area. For complete pole information and catalog structure, please visit our website www.holophane.com or refer to the Holophane Outdoor Buyers Guide.

DISTRIBUTIONS

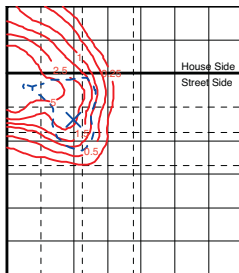
Forward Throw



Square



Asymmetric



SPECIFICATIONS

Luminaire shall be Holophane PoleStar® II series, Catalog No. PT _____. It shall consist of mounting, optical, support and electrical systems as well as finish cover and will provide certain performance characteristics as follows:

Mounting System — See page 43

Support System The luminaire support system shall include a cast aluminum structural frame. The support system shall be capable of withstanding vibration forces to a peak accelerated level of 1 G throughout the life of the luminaire and shall be verified by full scale accelerated fatigue testing. Door assemblies, when provided, shall be fully gasketed and hinged, designed to allow easy access for relamping.

Electrical System The electrical system shall consist of Holophane ballast components housed in the mounting arm or post top to minimize heat and extend ballast life. Ballast factor shall be 1.0. See Holophane ballast handbook HL-2209 for additional information.

Covers Each luminaire shall include a one piece ABS polymer (round, square, octal) cover. Covers shall be painted to match the balance of luminaire and pole.

Optical System — See page 43

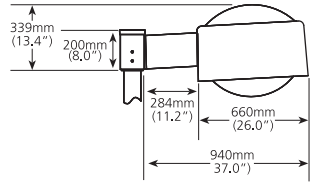
Finish The luminaire and pole shall be finished with a polyester powder coat paint following a seven stage pretreatment process.

Listings The fixtures shall be UL listed and CSA certified. The fixture shall be suitable for wet locations.

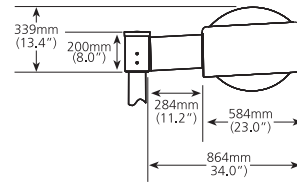
Photometric test number, IESNA distribution type, and cutoff classification

Watts/Lamp	Asymmetric enclosed A	Forward throw enclosed F	Forward throw enclosed C	Forward throw open P	Square enclosed S	Square open N
250 HPS	51239 III M CO	51234 IV S CO	51059 IV S CO	51060 IV S CO	50795 IV S CO	50792 IV S SC
250 MH	50979 III S CO	50981 III S CO	50975 IV S CO		50825 IV S CO	
400 HPS	50459 III S CO	50465 III S CO	50990 IV S CO	50993 IV S CO	50470 IV S CO	50498 IV S SCO
400 MH	50927 III S CO	50923 III S CO	50827 IV S CO	50929 IV S CO	50820 IV VS CO	50821 IV S SCO
750 HPS	51113 III S CO	51115 IV S CO	51109 III VS CO	51110 IV S CO	50879 IV S CO	50880 IV S CO
1000 HPS	50468 III VS CO	50769 IV VS CO	50473 III VS CO	50497 III VS CO	50480 IV VS CO	50493 IV S CO
1000 HPS COMPACT	51161 III S CO	51163 III S CO	51122 IV S CO	51124 IV S CO	50876 IV S CO	50877 IV S SCO
1000 MH	50771 III S CO	50495 III S CO	50486 IV S CO	50917 IV S CO	50915 IV S CO	50491 IV S CO

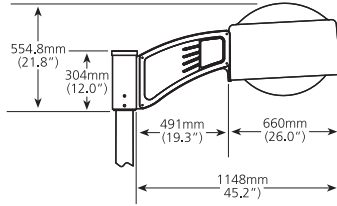
DIMENSIONAL DETAILS



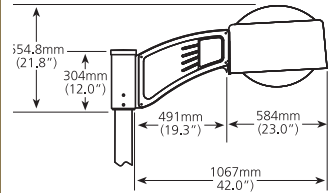
PT5
 (Round Cover, Linear Arm)
Maximum Weight: 40.82 kg. (90 lbs.)
Maximum EPA: 2.71



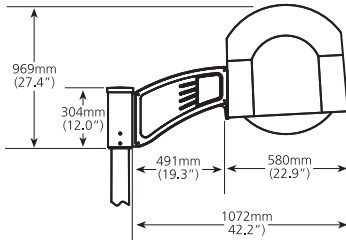
PT4
 (Round Cover, Linear Arm)
Maximum Weight: 36.28 kg. (80 lbs.)
Maximum EPA: 1.92



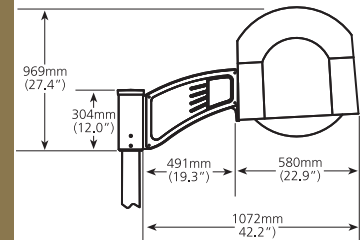
PT5
 (Square Cover, Arched Arm)
Maximum Weight: 43.09 kg. (95 lbs.)
Maximum EPA: 4.78



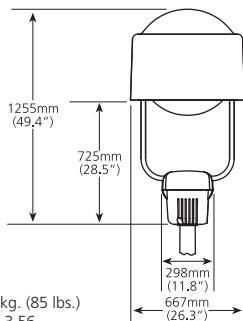
PT4
 (Square Cover, Arched Arm)
Maximum Weight: 38.55 kg. (85 lbs.)
Maximum EPA: 3.66



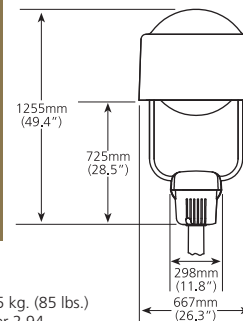
PT5
 (Octal Flat Cover, Arched Arm)
Maximum Weight: 43.09 kg. (95 lbs.)
Maximum EPA: 3.69



PT4
 (Octal Flat Cover, Arched Arm)
Maximum Weight: 38.55 kg. (85 lbs.)
Maximum EPA: 3.69



PT5
 (Round Cover, Post Top)
Maximum Weight: 38.55 kg. (85 lbs.)
Maximum EPA: "R" Cover 3.56
 "S" Cover 5.04



PT4
 (Round Cover, Post Top)
Maximum Weight: 38.55 kg. (85 lbs.)
Maximum EPA: "R" Cover 2.94
 "S" Cover 3.92

PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

PT	4	250PM	12	S	L	R	R	PS
1	2	3	4	5	6	7	8	9
LUMINAIRE	SIZE	WATTAGE	VOLTAGE	OPTICS	MOUNTING	COVER	FINISH	OPTIONS
PT	4 5	250PM 400PM	12 MT	F S	A L	R S	P R	PS


CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
PT	PoleStar II
STEP 2: SIZE	
4	Medium
5	Large
STEP 3: SOURCE AND WATTAGE	
PT4 - MEDIUM	
HIGH PRESSURE SODIUM	
Mogul Base	
250HP ¹	250W HPS
400HP ¹	400W HPS
METAL HALIDE	
Mogul Base	
250MH ^{1,2}	250W MH
250MP ^{1,2}	250W MH, protected
400MH ^{1,2}	400W MH
400MP ^{1,2}	400W MH, protected
PULSE START METAL HALIDE	
250PM ^{1,5}	250W MH
250PP ^{1,5}	250W MH, protected
320PM ^{1,5}	320W MH
320PP ^{1,5}	320W MH, protected
350PM ^{1,5}	350W MH
350PP ^{1,5}	350W MH, protected
400PM ^{1,5}	400W MH
400PP ^{1,5}	400W MH, protected
¹ Not available with "N" or "P" optics ² Not available for shipment in US after Dec. 31, 2008, due to EISA legislation ³ Note available with "MT" voltage ⁴ Available with "N" or "P" optics only ⁵ Meets US Federal EISA legislation	

STEP 3: SOURCE (CONTINUED)	
PT5 - LARGE	
HIGH PRESSURE SODIUM	
750HP ³	750W HPS
C10HP	1000W HPS
CP1HP	1000 Compact HPS
METAL HALIDE	
C10MH ⁵	1000W MH
C10MP ^{4,5}	1000W MH, protected
³ Note available with "MT" voltage ⁴ Available with "N" or "P" optics only ⁵ Meets US Federal EISA legislation	
STEP 4: VOLTAGE	
08 ^{1,2}	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40 ^{1,2}	240V, Isolated secondary
48	480V
MT	Multivolt, 120-277V
VT ²	Varitap, 120-347V
¹ Must be handled through TSG ² Not available with PT5 Size	
STEP 5: OPTICS	
Asymmetric Distribution	
A ¹	Enclosed aluminum
Forward Throw Distribution	
F	Enclosed aluminum
C	Enclosed glass
P	Open glass
Square Distribution	
S	Enclosed glass
N	Open glass
¹ Handles through TSG	

STEP 6: MOUNTING	
A ¹	Arched arm, solid
H	Arched arm, hole
L	Linear arm
P	Post Top
¹ Not available with "CP1PH" wattage on the PT5 Size	
STEP 7: COVER	
F	Octal Flat
R	Round
S	Square
STEP 8: FINISH	
K	Black
V	Green
W	White
Z	Bronze
	
*Colors are just a representation. Custom colors are available upon request	
STEP 9: OPTIONS	
Factory Installed.	
See page 63 for a complete list of options and product availability	
STEP 10: ACCESSORIES	
Ships Separately.	
See page 63 for a complete list of accessories and product availability	



MIRROSTAR®

THE MIRROSTAR LUMINAIRE COMBINES SUPERIOR PERFORMANCE WITH EASE OF MAINTENANCE TO PROVIDE A UNIQUE SOLUTION FOR AREA LIGHTING. THIS COMBINATION OF PREMIUM OPTICAL PERFORMANCE AND DURABLE CONSTRUCTION MAKE THE MIRROSTAR LUMINAIRE AN INTELLIGENT CHOICE IN LARGE AREA RETAIL AND COMMERCIAL LIGHTING.



FEATURES AND BENEFITS

- ❑ The Miro® 4 optics creates a safe and secure environment by producing a distribution that is very uniform
- ❑ Meets the IESNA full cutoff classification to help limit light pollution and light trespass
- ❑ Lamp access, hinged door assembly, and ballast components provide ease of maintenance
- ❑ Durable construction provides product longevity

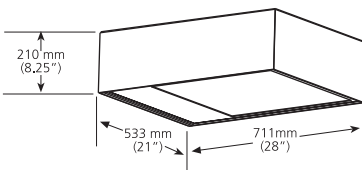
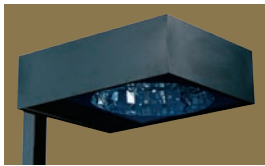
Miro® 4 is a Registered Trademark of Alanod

TYPICAL APPLICATIONS

- ❑ Parking Areas
- ❑ City Streets
- ❑ Residential Areas
- ❑ Campuses

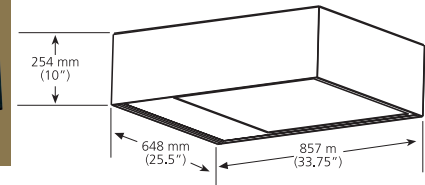
ORDERING INFORMATION

DIMENSIONAL DETAILS



2 — Medium

Mounting:	Max. Weight:	Max. EPA:
NN	20.4 kg. (45 lbs.)	1.92
SS	21.7 kg. (48 lbs.)	2.31
LS	22.6 kg. (50 lbs.)	2.69



3 — Large

Mounting:	Max. Weight:	Max. EPA:
NN	29.5 kg. (65 lbs.)	2.81
SS	30.8 kg. (68 lbs.)	3.20
LS	31.7 kg. (70 lbs.)	3.58

PERFORMANCE SPECIFICATIONS

Luminaire shall be Holophane MirroStar series, catalog No. MS _____. This fixture shall consist of mounting, optical, support, and electrical systems and will provide certain performance characteristics as follow:

Housing: Housing shall consist of one piece 18 gauge formed aluminum, with smooth welded seams. An 11 gauge galvanized steel reinforcement plate shall be attached to the rear of the housing for added stability.

Door Frame: One-piece heavy duty, 13 gauge formed aluminum, held together with a rigid extruded aluminum riveted frame. Frame shall be fully lined about the perimeter with a high temperature, closed - cell gasket material to provide an insect and dust free interior. Door frame shall be connected to the housing with a continuous hinge that runs the full width of the housing and is secured with five or more screws. Two captive screws shall be used for closure and for easy lamp access.

Lens: 3/16" (1/8" in medium housing) thick clear tempered flat glass shall be attached to the door-frame with RTV.

Exterior: All exterior surfaces shall receive a seven stage cleaning and iron phosphate pretreatment prior to painting. The finish shall be a fade resistant (color) polyester powder paint baked on to provide a hard, durable coating.

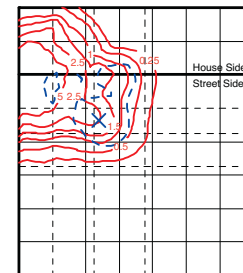
Optical System: A fully reflective interior constructed of Miro® 4 (enhanced pre-anodized aluminum), minimum of .020" thick, with a specular component of at least 92% and a total reflectivity of 95%. Integrity of the reflective panels is held intact by a continuous band around the central circumference.

Electrical System: The electrical system shall consist of Holophane ballast and components attached to a tray. Tray shall be removable without use of tools. Ballast factor shall be 1.0.

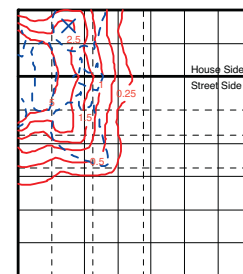
Miro® 4 is a Registered Trademark of Alanod

DISTRIBUTIONS

Type III



Square



PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

MS 1 LUMINAIRE MS	3 2 SIZE 2 3	A 3 SHAPE A	320PM 4 WATTAGE 320PM 350PM 400PM	12 5 VOLTAGE 12 MT	H 6 LAMP H	3 7 DISTRIBUTIONS 3 Q	NN 8 MOUNTING NN SS	K 9 FINISH K W	PS 10 OPTIONS PS
--	--	------------------------------------	--	--	-----------------------------------	---	---	--	---

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
MS	MirroStar
STEP 2: SIZE	
2	Medium, 250-400W
3	Large, 1000W.
STEP 3: SHAPE	
A	Rectangular
STEP 4: SOURCE AND WATTAGE	
HIGH PRESSURE SODIUM	
<u>Mogul Base</u>	
250HP	250W HPS
400HP	400W HPS
C10HP²	1000W HPS
METAL HALIDE	
<u>Mogul Base</u>	
250MH¹	250W MH
400MH¹	400W MH
C10MH^{1,2}	1000W MH
PULSE START METAL HALIDE	
250PM³	250W MH
320PM³	320W MH
350PM³	350W MH
400PM³	400W MH
¹ Not available for shipment in US after Dec. 31, 2008, due to EISA legislation ² Available with "3" large size only ³ Meets US Federal EISA legislation	

STEP 5: VOLTAGE	
12	120V
20	208V
24	240V
27	277V
34	347V
48	480V
MT	Multivolt, 120-277V
VT	Varitap, 120-347V
STEP 6: LAMP POSITION	
H	Horizontal lamp
STEP 7: DISTRIBUTION	
3	IESNA Type III
Q	IESNA Type V, square
STEP 8: MOUNTING	
NN	No Arm
SS	6" Arm for square pole
LS	12" Arm for square pole

STEP 9: FINISH	
K	Black
W	White
Z	Bronze
*Colors are just a representation. Custom colors are available upon request	
STEP 10: OPTIONS	
Factory Installed.	
See page 63 for a complete list of options and product availability	
STEP 11: ACCESSORIES	
Ships Separately.	
See page 63 for a complete list of accessories and product availability	
House Side Shield	
MSHS2-X	Medium Housing
MSHS3-X	Large Housing
2-7/8" Tenon Adapter	
MSTN01-X	1 @ 90°
MSTN02-X	2 @ 180°
MSTN2L-X	2 @ 90°
MSTN03-X	3 @ 90°
MSTN04-X	4 @ 90°
Mounting	
MSSS-X	6" arm for square pole
MSLS-X	12" arm for square pole
MSWP-X	Wall mount plate. Use with 6" or 12" arm
Insert "K"- black; "W" - white; or "Z" - bronze for "X" for above numbers	



SOMERSET®

OVERALL, THE SOMERSET PROVIDES THE PROPER BALANCE BETWEEN ARCHITECTURAL FAMILIARITY AND SOUND PERFORMANCE. THE SOMERSET LUMINAIRE IS A LOW PROFILE, FULL CUTOFF LUMINAIRE FEATURING HIGHLY ENGINEERED OPTICAL SYSTEMS AND HOUSING CONSTRUCTION THAT PROVIDES HIGH PERFORMANCE IN MANY APPLICATIONS.



FEATURES AND BENEFITS

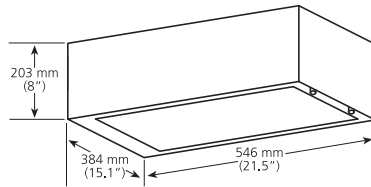
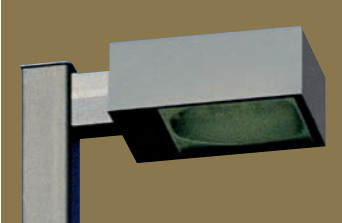
- ❑ Prismatic glass optics for superior performance
- ❑ Optical lens obscures the lamp image and improves visual comfort
- ❑ Lamp access with two quarter-turn fasteners provide ease of maintenance

TYPICAL APPLICATIONS

- ❑ Parking Areas
- ❑ City Streets
- ❑ Parks
- ❑ Residential Areas
- ❑ Campuses
- ❑ Walkways

ORDERING INFORMATION

DIMENSIONAL DETAILS



Maximum Weight: 16 kg. (36 lbs.)
Maximum EPA: 1.43

PERFORMANCE SPECIFICATIONS

Luminaire shall be Holophane Somerset series, catalog No. SMST _____. This fixture shall consist of mounting, optical, support, and electrical systems and will provide certain performance characteristics as follow:

The luminaire shall consist of a formed 1.3mm (18 ga.) aluminum housing with cast aluminum door frame bottom enclosure to hold prismatic lens or flat tempered glass.

All exposed surfaces shall receive a seven stage cleaning and pretreatment prior to painting. The finish shall be a fade resistant (color) polyester powder paint baked on to provide a hard durable coating.

Reflector shall be hydro-formed aluminum alloy #3002 reflector sheet, chemically brightened and anodized.

Mounting bolts, washers and nuts shall be zinc-plated steel. Electrical components (ballast, capacitor, fuses, starter board, etc.) shall be mounted to a single removable galvanized steel plate.

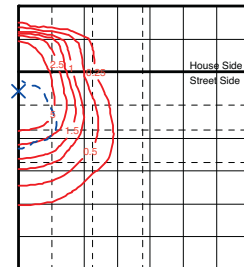
Socket wires shall have plug-in disconnect. Complete electrical assembly shall be removable by unplugging socket leads and primary leads and disengaging one quarter-turn faster.

Ballast area and door shall be fully gasketed with high-temperature, closed cell material.

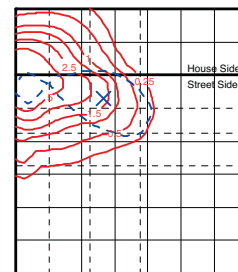
The complete unit shall be UL listed "Suitable for Wet Locations" and CSA certified.

DISTRIBUTIONS

Forward Throw



Type III



PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

SMST	250PM	MT	BZ	CL	PS	SMST1BZ
1	2	3	4	5	6	7
LUMINAIRE	WATTAGE	VOLTAGE	FINISH	OPTICS	OPTIONS	ACCESSORIES
SMST	250PM 320PM 350PM 400PM	MT	BZ	CL PM	F1 PS	SMST1BZ SMSTL2ARBZ

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
SMST	Somerset
STEP 2: SOURCE AND WATTAGE	
HIGH PRESSURE SODIUM	
Mogul Base	
100HP	100W HPS
15AHP	150W/55V HPS
250HP	250W HPS
400HP	400W HPS
METAL HALIDE	
Mogul Base	
150MH ¹	150W MH
175MH ¹	175W MH
250MH ¹	250W MH
400MH ¹	400W MH
PULSE START METAL HALIDE	
175PM ²	175W MH
250PM ²	250W MH
320PM ²	320W MH
350PM ²	350W MH
400PM ²	400W MH
¹ Not available for shipment in US after Dec. 31, 2008, due to EISA legislation	
² Meets US Federal EISA legislation	
STEP 3: VOLTAGE	
08 ¹	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34 ²	347V
40 ¹	240V, Isolated secondary
48 ²	480V
MT	Multivolt, 120-277V
VT ³	Varitap, 120-347V
¹ Must be handled through TSG	
² Not available with 150MH and 175PM	
³ Not available with 200-400 wattages	

STEP 4: FINISH	
BK	Black
GR	Gray
WH	White
BZ	Bronze
<i>*Colors are just a representation. Custom colors are available upon request</i>	
STEP 5: OPTICS	
PM ¹	Prismatic borosilicate glass
CL	Clear tempered glass
Forward Throw	
PF ²	Prismatic glass
CF ²	Clear tempered glass
1 These units are shipped with adjustable socket set to produce the widest spacing. The socket can be field adjusted to provide other distributions. (Does not apply to 400W MH)	
2 Lamp provided by Holophane	
STEP 6: OPTIONS	
Factory Installed.	
<i>See page 63 for a complete list of options and product availability</i>	

STEP 7: ACCESSORIES	
<i>Ships Separately.</i>	
<i>See page 63 for a complete list of accessories and product availability</i>	
Arm	
SMSTARMXX	5.75" Arm
Adaptor Round Pole	
SMSTL1XX	1 unit
SMSTL2XX	2 units @ 180°
Adaptor Round Pole With Arm	
SMSTL1AXX	1 unit
SMSTL2AXX	2 units @ 180°
SMSTL2LAXX	2 units @ 90°
SMSTL4AXX	4 units @ 90°
Adaptor Round Pole With Photo Receptacle	
SMSTL1RXX	1 unit
SMSTL2RXX	2 units @ 180°
Adaptor Round Pole With Arm and Photo Receptacle	
SMSTL1ARXX	1 unit
SMSTL2ARXX	2 units @ 180°
SMSTL2LARXX	2 units @ 90°
SMSTL3ARXX	3 units @ 90°
SMSTL4ARXX	4 units @ 90°
Pipe Adaptor	
SMSTPBXX	51mm (2.0")
Wall Bracket	
SMSTWBXX	Close mount
SMSTWSXX	With 5.75" arm
Insert "BK" - black; "BZ" - bronze; "GR" - Gray; or "WH" - white for "X" for above numbers	



CRESTWOOD®

EFFICIENCY AND PERFORMANCE ARE THE BYWORDS FOR THE CRESTWOOD LUMINAIRE WITH ITS SUPERIOR COMBINATION OF OPTICS AND CONSTRUCTION. CRESTWOOD LUMINAIRES DEFINE EFFICIENT AREA LIGHTING. THE GLASS OPTICAL CONTROL PROVIDES UP TO 6:1 SPACING FOR LARGE AREAS AT MEDIUM MOUNTING HEIGHTS.



FEATURES AND BENEFITS

- ❑ Optical system provides widest possible spacing for lowest total cost of ownership
- ❑ The borosilicate glass refractor and a vertical lamp provides a highly efficient square lighting pattern and excellent vertical light level
- ❑ The square pattern is ideal for lighting large areas uniformly
- ❑ Vertical illumination provides for a safe and secure environment

TYPICAL APPLICATIONS

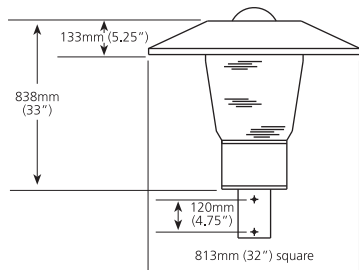
- ❑ Parking Areas
- ❑ Parks
- ❑ Residential Areas
- ❑ Campuses

ORDERING INFORMATION

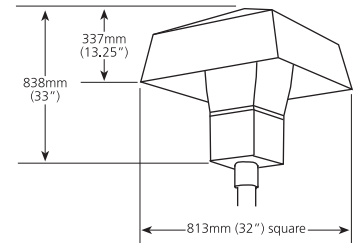
DIMENSIONAL DETAILS



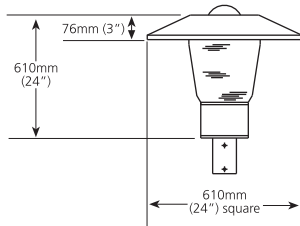
CW3A — Large
(Standard Canopy)
Maximum Weight: 36 kg. (84 lbs.)
Maximum EPA: 2.71



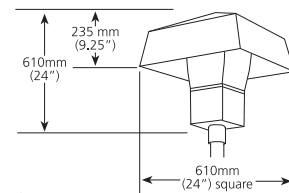
CW3A — Large
(Mansard Canopy)
Maximum Weight: 36kg. (84 lbs.)
Maximum EPA: 4.31



CW2A — Small
(Standard Canopy)
Maximum Weight: 19 kg. (42 lbs.)
Maximum EPA: 1.68



CW2A — Small
(Mansard Canopy)
Maximum Weight: 19 kg. (42 lbs.)
Maximum EPA: 2.48



PERFORMANCE SPECIFICATIONS

Luminaire shall be Holophane Crestwood series, catalog No. CW _____. This fixture shall consist of mounting, optical, support, and electrical systems and will provide certain performance characteristics as follow:

Luminaire shall consist of a canopy and refractor assembly for post top mounting. The canopy shall be formed aluminum.

Refractor Assembly shall be molded prismatic borosilicate thermal shock-resistant glass refractor with a cast aluminum collar. The refractor shall have specially designed prisms that will produce a square light pattern. The collar shall have two stainless steel pressure latches and two hinges to secure the canopy.

Ballast Capsule Mounting Assembly shall be extruded aluminum with a polyester powder paint coating. The integral ballast shall operate a _____ lamp and provide reliable starting at temperatures as low as -20°F. Starting line current shall be _____ amps and operating current _____ amps; power factor over 90% and lamp wattage regulation of ± _____ at ± _____ % line voltage fluctuation.

Mounting assembly shall have a wiring access cover with provision for containing a photocontrol and shall be secured to the pole with set screws. Luminaire shall fit on a 4" O. D. tenon (CW3A) or 3" O. D. tenon (CW2A).

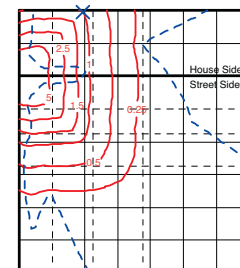
The complete unit shall be CSA certified and UL listed as "Suitable for Wet Locations." The unit shall be Holophane catalog number _____.

Electrical Characteristics For complete electrical data, see tables of electrical characteristics in Holophane Ballast Handbook, publication HL-301.

Pole Data For specific pole data, see publication HL-2138 Outdoor Buyers Guide, or contact your local Holophane representative.

DISTRIBUTIONS

Forward Throw



PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers




CW2A	250PM	12	CA	BZ	PS	CW2A90
1	2	3	4	5	6	7
LUMINAIRE	WATTAGE	VOLTAGE	CANOPY	FINISH	OPTIONS	ACCESSORIES
CW2A CW3A	250PM 320PM 400PM	12	CA MN	BZ	PS	CW2A90 CW2A180

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)






STEP 1: LUMINAIRE	
CW2A	Crestwood, small
CW3A	Crestwood, large
STEP 2: SOURCE AND WATTAGE	
CW2A — SMALL	
HIGH PRESSURE SODIUM	
070HP	70W HPS
100HP	100W HPS
15AHP	150W HPS
METAL HALIDE	
175MH ¹	175W MH
250MH ¹	250W MH
PULSE START METAL HALIDE	
175PM ^{2,3}	175W MH
CW3A — LARGE	
HIGH PRESSURE SODIUM	
250HP	250W HPS
400HP	400W HPS
C10HP	1000W HPS
METAL HALIDE	
400MH ¹	400W MH
C10MH	1000W MH
PULSE START METAL HALIDE	
250PM ²	250W MH
320PM ²	320W MH
350PM ²	350W MH
400PM ²	400W MH
¹ Not available for shipment in US after Dec. 31, 2008, due to EISA legislation ² Meets US Federal EISA legislation ³ Not available with 347 and 480V	

STEP 3: VOLTAGE	
08 ^{1,2}	208V, Isolated secondary
12	120V
20	208V
24	240V
27	277V
34	347V
40 ^{1,2}	240V, Isolated secondary
48	480V
MT	Multivolt, 120-277V
VT ³	Varitap, 120-347V
¹ Must be handled through TSG ² Not available with 250MH and 175PM ³ Available with 200-400 wattages	
STEP 4: CANOPY	
CA	Standard
MN	Mansard
	
	Standard Mansard
STEP 5: FINISH	
BK	Black
GR	Gray
WH	White
BZ	Bronze
	
*Colors are just a representation. Custom colors are available upon request	






STEP 6: OPTIONS	
Factory Installed.	
See page 63 for a complete list of options and product availability	
STEP 7: ACCESSORIES	
Ships Separately.	
See page 63 for a complete list of accessories and product availability	
Photocontrol Kits	
CWAPR1	208, 240, 277V
CWAPR341	347V
CWAPR12 ¹	120V
CWAPRC1012 ²	120V, 1000W
C20APRC1034 ²	347V, 1000W
CW2A Shields	
CW2A90	90° Shield
CW2A120	120° Shield
CW2A180	180° Shield
CW3A Shields	
CW3A90	90° Shield
CW3A180	180° Shield
¹ Available with 250HP, 400HP and 400MH only ² Available with C10HP, and C10MH only	

STANDARD FEATURES, OPTIONS AND ACCESSORIES

		GlasWerks II Series	MetroVue Series	Pechina Series
				
Luminaire		GB, GE, GM, GN, GP, GR, GS, GY	EA, EY, EYP	P
Shapes	The product has multiple contemporary shapes available for a variety of architectural design options	S	S	—
Housing	Heavy duty, cast aluminum ballast housing.	S	S	S
Electrical	UL/CUL labeled for wet locations, suitable for ambient temperatures up to 40°C. IP66 Rated	S	S	S
Optics	A variety of optics choices provide a wide range of lighting distributions	S	S	S
Mounting	A variety of pole and arm mountings are available	S	S	S
Finish	A wide variety of color choices are available. Custom colors are available upon request	S	S	S
F1	Single fusing for 120, 240, 277 and 347V units	—	—	—
F2	Double fusing for 208, 240 and 480V units	—	—	—
DS	Deep skirt for cutoff requirement, 30" diameter.	—	O	—
SS	Shallow skirt for cutoff requirement, 30" diameter.	—	O	—
H	NEMA twist-off photocontrol receptacle	O	—	—
NEMA XXXXX	NEMA label. Insert source and wattage for "XXXX" in catalog number	O	—	O
P	Protected starter for HPS units. Not available with 08 and 40 voltages	O	O	—
PI	Plug-in starter for HPS units.	—	—	O
PS	Protected starter for HPS units	—	—	O
PG	Plug-in protected starter for HPS units	—	—	O
PCTWSTL120	DTL twist-off photocontrol for 120 volt. Shipped in carton with unit. Must be used with photocontrol receptacle	O	O	O
PCTWSTL1202427	DTL twist-off photocontrol for 120-277 volt. Shipped in carton with unit. Must be used with photocontrol receptacle.	O	O	O
PCTWSTL480	DTL twist-off photocontrol for 480 volt. Shipped in carton with unit. Must be used with photocontrol receptacle.	O	O	O
PCTWSTSHRTCAP	Shorting cap	O	O	O
PR	Button style photocontrol. Available with 120, 208, 240, 277 and 347V only. Limited to 175W and below. Not available with "R" or "PCTWSTL" photocontrols.	—	—	O
R	NEMA twist-off photocontrol receptacle	—	O	O
T	Both NEMA twist-off photocontrol receptacle and plug-in protected starter	O	—	—
F1	Single fusing for 120, 240, 277 and 347V units	—	—	A
F2	Double fusing for 208, 240 and 480V units	—	—	A
IG-5	Plug-in replacement starter for HPS units	A	—	—
IG-6	Plug-in replacement protected starter for HPS units	A	—	—
IG-7	Plug-in replacement protected starter kit for	A	—	—
LAMP	Appropriate lamp shipped	A	A	—
PECHINAHSSXX	External house side shield. Insert color for "XX" in catalog number	—	—	A

- S** Standard - Standard product features
- O** Option - Product options are factory installed
- A** Accessory - Product accessory ships separately
- Not Available

Contact your local sales rep for the most current option and accessory compatibility.

	Mongoose Series	PoleStar Series	MirroStar	Somerset	Crestwood
					
Luminaire	G	PT	MS	SMST	CW2A, CW3A
Shapes	The product has multiple contemporary shapes available for a variety of architectural design options	S	S	—	—
Housing	Heavy duty, cast aluminum ballast housing.	S	S	S	S
Electrical	UL/CUL labeled for wet locations, suitable for ambient temperatures up to 40°C. IP66 Rated	S	S	S	S
Optics	A variety of optics choices provide a wide range of lighting distributions	S	S	—	—
Mounting	A variety of pole and arm mountings are available	S	S	S	S
Finish	A wide variety of color choices are available. Custom colors are available upon request	S	S	S	S
F1	Single fusing for 120, 240, 277 and 347V units	—	—	O	—
F2	Double fusing for 208, 240 and 480V units	—	—	O	—
B	Terminal block and NEMA decal. Not available with "C" option	O	—	—	—
C	NEMA decal. Not available with "B" option	O	—	—	—
T	Spade termination for ballast leads. Available with "MT", "MA", "MB", "MC", "MD" and "VT" voltages only	O	—	—	—
3	3" to 2" Tenon adapter, same color as fixture. Available with "V" mounting only	O	—	—	—
6	6' Pigtail	O	—	—	—
HS	House side shield for "A", "C", "F" and "S" optics only	—	O	—	—
PS	Protected starter for HPS units (P is cat. number for Mongoose)	O	O	O	O
TB	Terminal block	—	—	O	—
R	NEMA twist-off photocontrol receptacle	O	—	O	—
BKT-5-G	Galvanized wood pole bracket	A	—	—	—
BR-1091-XX	3" to 2" Tenon adapter bracket. Insert color K-black, V-green, W-white or Z-bronze for "XX" in catalog number	A	—	—	—
F1	Single fusing for 120, 240, 277 and 347V units	A	A	—	A
F2	Double fusing for 208, 240 and 480V units	A	A	—	A
LAMP	Appropriate lamp shipped	A	—	—	A
PTHS	House side shield for enclosed optics, A, C, F, and S only	—	A	—	—
SDXX	House side shield for open optic. Insert color K-black, V-green, W-white or Z-bronze for "XX" in catalog number	—	A	—	—
WBXX	Wall bracket for structural mounting. Insert color K-black, V-green, W-white or Z-bronze for "XX" in catalog number	—	A	—	—
PS-55	Protected starter for HPS units (100-150W)	—	—	—	A
PS-100	Protected starter for HPS units (250-400W)	—	—	—	A

- S** Standard - Standard product features
- O** Option - Product options are factory installed
- A** Accessory - Product accessory ships separately
- Not Available

Contact your local sales rep for the most current option and accessory compatibility.



HOLOPHANE[®]
LEADER IN LIGHTING SOLUTIONS

An *AcuityBrands Company*

Acuity Brands Lighting, Inc.

Holophane Headquarters, 3825 Columbus Road,
Granville, OH 43023

Holophane Canada, Inc. 9040 Leslie Street,
Suite 208, Richmond Hill, ON L4B 3M4

Holophane Europe Limited, Bond Ave.,
Milton Keynes MK1 1JG, England

Holophane, S.A. de C.V., Apartado Postal No. 986,
Naucalpan de Juarez, 53000 Edo. de Mexico

Contact your local Holophane factory sales representative for application assistance, and computer-aided design and cost studies. For information on other Holophane products and systems, call the Inside Sales Service Department at 740-345-9631. In Canada call 905-707-5830 or fax 905-707-5695.

Limited Warranty and Limitation of Liability
Refer to the Holophane limited material warranty and limitation of liability on this product, which are published in the "Terms and Conditions" section of the current Buyers Guide, and is available from your local Holophane sales representative.

Visit our web site at www.holophane.com

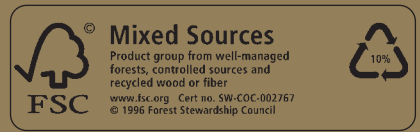
HL-2151 8/09 ©2009 Acuity Brands Lighting, Inc

Luminaires may utilize fluorescent or high intensity discharge sources that contain small amounts of mercury. New disposal labeling for these lamps includes the mercury identifier shown on the left to indicate that the lamp contains mercury and should be disposed of in accordance with local requirements.



Information sources regarding lamp recycling and disposal are included on the packaging of most mercury-containing lamps and also can be located at www.lamprecycle.org.

Product specifications may change without notice. Please contact your local Holophane factory sales representative for the latest product information.



Buying products with the FSC label supports the growth of responsible forest management worldwide. The eco savings in the production of this brochure:

- 5 trees preserved for the future*
- 14 lbs waterborne waste not created*
- 2,086 gallons wastewater flow saved*
- 231 lbs solid waste not generated*
- 454 lbs net greenhouse gases prevented*
- 3,478,370 BTUs energy not consumed*

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